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# AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

## RESEARCH PROPOSAL

## QUARTERLY STATUS REPORT

JANUARY - MARCH 1994

**RESEARCH PROPOSAL**

**QUARTERLY STATUS REPORT**

**FIRST QUARTER 1994**

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BOLLING AIR FORCE BASE DC 20332

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## INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December). by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined, Withdrawn or Withdrawn on each report.

The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

## PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

## AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. The AFOSR is organized under the Director, Science and Technology, Air Force Materiel Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement originating from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance, the qualification of the principal investigator, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

**Title** - The title of the research proposal.

**Institution** - The organization, (e.g., college/university, company) at which the research will be conducted.

**Investigator** - The Principal Investigators proposing the research.

**Type** - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

**Months** - The duration of the research proposal.

**Received** - The month and year in which the AFOSR received the proposal.

**Amount** - The funds requested of the AFOSR for support of the research proposal.

**Status** - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposer's request.

**Program Manager** - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

**Proposal #** - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

**Initiate** - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

**Start Date** - The recommended date for commencement of the research.

**Total Amount** - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

**PART 1**

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
STATUS - \*A\* = ACCEPTED, \*D\* = DECLINED, \*W\* = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AEIUS Research Corp	Cites	Jeff	S		94-NE-103	D	WITT
APG Optics Inc	Board	W			94-NE-105	D	WITT
AW Associates, Inc	All	Abdul	Mahab		94-NL-120	D	KROLL
Accu-Fab Systems of California, Inc	Voit	Peter	roit		94-NM-122	D	JACOBS
AeroDyne Research Inc	Brown	Robert	C		94-NC-076	D	BERMAN
Air Force Institute of Technology	Freedman	A.			94-NC-085	A	ERSTFIELD
	Bridgeban	Charles			94-NI-012	A	SHELDON
	Ridgely	Michael	C		94-XP-003	A	HARITOS
	Roggenmann	Eugene			94-XP-004	A	JACOBS
	Santos, Jr.	Bruce			94-NM-167	A	NACHMAN
	Suter	Christopher	L		94-NM-146	A	WAKSMAN
Air Force Office of Scientific Research	Hughes	Thomas			94-NM-147	A	SJOGREN
Alpham-Robot Sensing, Inc	Parker	Robert			94-NM-105	A	SJOGREN
Alphate Photonics Inc	Shih	Geoffrey			94-NI-106	A	HUGHES
American Chemical Society	Lindsay	Ching-Fang			94-NL-121	D	KROLL
American SNC Corporation	Lin	John	S		94-NE-162	D	WITT
American Mathematical Society	Bradley	Albert			94-NC-127	D	LEE
American University	Nigrin	Don			94-NM-127	D	JACOBS
Angularus Research	Goldiny	David	K		94-NM-093	D	TANGNEY
Arizona State University	Ferry	William	F		94-NR-125	D	JACOBS
Arnold Engineering Development Center	Petuskey	Mark			94-NE-093	D	POMRENKE
Aristarix	Priski	Chang			94-NC-179	A	PECHENIK
Asimilux	G	Robert			94-NA-103	A	SAKELL
Asoterra Corporation	Rice	Eric			94-NA-110	A	MCMICHAEL
Auburn University	Korevaar	Thomas	A		94-NE-111	D	SCHLOSSBER
	daginski	John	D		94-NE-150	D	KROLL
	Crossler	William	F		94-NC-105	D	KROLL
	dale	Mrinal			94-NC-118	D	DICKINSON
	Thakur	Chin-Che			94-NE-142	D	KROLL
	Tin	Ralph	H		94-NC-110	D	WARD
	Zee	Joel	H		94-NE-123	D	JACOBS
	Katr	Gail			94-NL-118	D	TANGNEY
	Murzen	William			94-NM-128	D	JACOBS
	Taegnsey	James	E		94-NC-075	D	WITT
	Zollaseq	Sloboden	R		94-NA-102	D	KROLL
	Sinovic	Steven	A		94-NL-083	D	CRAIG
	Serati	Tujie	J		94-NE-088	A	JACOBS
	Ding	Paul			94-NC-095	A	JACOBS
	Dupuis	George	E		94-NM-03	A	JACOBS
	Karniadakis	Willians	G		94-NA-137	A	GLASSMAN
	Nulty	Orley	J		94-NA-141	D	JACOBS
	Norris	Chandy	H		94-NH-144	A	LUGINBuhl
	Chandy	Dimotakis	K		94-NA-081	A	MCMICHAEL
	Dimotakis	Paul			94-NL-092	D	KROLL
	Russell	Jeffrey	A				

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Arizona Western Reserve University	Pirooz Takefushi	P.		94-NC-156	W	WARD
Center For Remote Sensing	Ganjuly	Yoshiyasu		94-NM-175		GLASSMAN
Civil Engineering Research Foundation	Magjell Grujicic	Suman		94-NL-068		KROLL
Clemson University	Larsen	Carl	O	94-NA-093	A	LEWIS
Herisether	Merle	Micael		94-NC-114	W	WARD
Rack	Rack	Miguel	F	94-NL-105	A	KROLL
Osher	Osher	John	M	94-NL-106		KROLL
Miller	Miller	Henry	J	94-NC-117		WARD
Cotton	Cotton	Stanley		94-NM-148	A	NACHMAN
Etters	Etters	Arnold	R	94-NI-011	A	HART
Markman	Markman	William	R	94-NL-137		KROLL
Turro	Turro	Richard	D	94-NC-175	A	BERMAN
Haynes	Haynes	Arthur	B	94-NL-145		TANGNEY
Oden	Oden	Nicholas	J	94-NC-125		HEDBERG
Martens	Martens	Leonard	S	94-NM-123	D	JACOBS
Tayebati	Tayebati	J Tinsley		94-NA-125	A	JONES
		Jon		94-NC-138	A	ERSTFIELD
		Parviz		94-NE-164	A	WITT
		Patrick		94-NE-170	D	SCHLOSSBER
		Jeff	J	94-NA-109		MCMICHAEL
		Tong	W	94-NE-117	D	SCHLOSSBER
		Chester		94-NE-169	D	SCHLOSSBER
		Yujay		94-NC-133	A	ERSTFIELD
		Hoover	C	94-NA-085		JONES
		Filia	S	94-NL-117	D	HART
		Ulf	L	94-NM-090	D	JACOBS
		David		94-NE-010	A	JACOBS
		Bobbi		94-XP-005	A	BOGGS
		Hughes		94-NC-159	D	BERMAN
		Makedon		94-NA-095		LEWIS
		Osterberg		94-NL-053		KOZUMO
		Dacon		94-NE-116	A	SCHLOSSBER
		Gonzales		94-NC-124	D	KROLL
		Davidson		94-NM-135	D	GLASSMAN
		Jagota		94-NC-132	A	ERSTFIELD
		Sariasteni		94-NC-147		BERMAN
		Pan	J	94-NE-108	D	SCHLOSSBER
		Wu		94-NA-009	A	ZARBO
		Shambilen		94-NC-120	D	JACOBS
		Sammells		94-NL-073	D	TANGNEY
		Haaven		94-NC-136	D	ERSTFIELD
		McIntyre		94-NC-145		BERMAN
		Innocenti		94-NA-088	A	JONES
		Fraser		94-NM-103	A	NACHMAN
		Hasland		94-NM-130	A	MU
		Fishman		94-NM-154		WAKSMAN
		Jones				
		Mario				
		Kirk				
		Richard				
		Ilya				
		Herbert				
		Sheng				
		Michael				
		Genady				
		Daniel				
		G				

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Alcedo Corporation	Wei			94-NC-175	D	SCHLOSSBER
Fluidic Motion Corp	Lonner			94-NC-124	D	JACOBS
Focused Research Inc	Day			94-NE-173	A	SCHLOSSBER
Foster-Miller Inc	Domash			94-NE-115	D	SCHLOSSBER
General Electric Co	Levinson			94-NC-174	D	PECHENIK
George Washington University	Fiacco			94-NC-145	A	GLASSMAN
Georgia Institute of Tech	Darthold, III			94-NC-104	A	GLASSMAN
Georgia Tech Research Corporation	Flannery			94-NE-161	A	KELLEY
Jordan Research Conferences Inc	Kumar			94-NC-164	A	LEE
James Associates Inc	Kubas			94-NC-160	D	ERSTFELD
Farvard University	Jang			94-NC-146	D	LEE
Nakayama	Guang-May			94-NC-131	A	TANGNEY
Silvers	Ken			94-NC-167	A	BERMAN
Stromeyer III	Isaac			94-NC-132	A	TANGNEY
Hughes Aircraft Corp Research Labs	Charles			94-NC-161	A	LEE
IPM Almaden Research Center	Shin-Tsion			94-NC-097	A	WAKSMAN
Int'l Computer Society Press	Joseph			94-NE-185	A	CRAIG
IS Robotics Inc	Catherine			94-NC-130	D	JACOBS
Idaho State University	Collin			94-NE-141	A	WEINSTOCK
Jurges Aircraft Corp Research Labs	George			94-NC-090	A	KOZUMBO
Hughes Aircraft Corp Research Labs	Eric			94-NC-103	D	KROLL
IPM Almaden Research Center	James C.K.			94-NC-165	A	WAKSMAN
Int'l Computer Society Press	Rene			94-NC-133	D	TANGNEY
IS Robotics Inc	James			94-NC-131	D	KOZUMBO
Idaho State University	Geoffrey			94-NC-171	D	KROLL
Jurges Aircraft Corp Research Labs	Bingham			94-NC-169	D	BERMAN
Hughes Aircraft Corp Research Labs	Earl			94-NC-128	D	BERMAN
IPM Almaden Research Center	Seidel			94-NC-151	D	BARKER
Int'l Computer Society Press	Heberlein			94-NC-112	D	BERMAN
IS Robotics Inc	Davidson			94-NC-121	D	BERMAN
Idaho State University	Carpenter			94-NC-083	A	SJOGREN
Jurges Aircraft Corp Research Labs	Qaam			94-NC-083	A	BARKER
Hughes Aircraft Corp Research Labs	Setsar			94-NE-090	A	COLLINS
IPM Almaden Research Center	Raichel			94-NC-104	D	KOZUMBO
Int'l Computer Society Press	Radar			94-NC-102	A	HADDAD
IS Robotics Inc	Baratta			94-NC-103	A	COLLINS
Idaho State University	Gonzalez-Martin			94-NC-091	A	ERSTFELD
Jurges Aircraft Corp Research Labs	Stan			94-NC-126	D	KROLL
Hughes Aircraft Corp Research Labs	Chandan			94-NE-177	D	SCHLOSSBER
IPM Almaden Research Center	Praasad			94-NC-125	D	KROLL
Int'l Computer Society Press	Thomas			94-NC-157	D	PECHENIK
IS Robotics Inc	Kevin			94-NC-164	D	PECHENIK
Idaho State University	Anuncia			94-NE-176	D	SCHLOSSBER
Jurges Aircraft Corp Research Labs	Gonzalez-Martin			94-NE-113	A	FANT
Hughes Aircraft Corp Research Labs	Loje			94-NA-127	A	BARKER
IPM Almaden Research Center	Harris			94-NE-182	A	SMITH
Int'l Computer Society Press	David			94-NE-154	D	SMITH
IS Robotics Inc	Fred Peter					
Idaho State University	Chan					
Jurges Aircraft Corp Research Labs	Helen					
Hughes Aircraft Corp Research Labs	M.					
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Int'l Computer Society Press						

INSTITUTION INDEX (1 JAN 34 - 31 MAR 94)  
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
 STATUS - \* = ACCEPTED, \*\* = DECLINED, \*\*\* = WITHDRAWN

## INSTITUTION

LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Udo	Robert		J	94-NC-103	ERSTFIELD	ERSTFIELD
Griffin	Gregory		L	94-NC-096	JACOBS	JACOBS
Ju	Guokiang			94-NM-158	WITT	WITT
Ikossi-Anastasiou	Kiki			94-NE-134	BERMAN	BERMAN
Kalia	Rajiv		K	94-NC-123	POMRENKE	POMRENKE
Li	Ben		Q	94-NE-143	SMITH	SMITH
Myrum	Tod		A	94-NE-159	FANT	FANT
Nikopoulas	Dimitris		E	94-NA-120	ERSTFIELD	ERSTFIELD
Overton	Edward		B	94-NC-161	LEE	LEE
Warner	Istiah		M	94-NC-093	ERSTFIELD	ERSTFIELD
Reynolds	George		H	94-NC-085	D	D
MacLeod	Edward			94-NN-138	JONES	JONES
Arjon	Ali		S	94-NA-091	JONES	JONES
Dahleh	Munther			94-NA-092	A	JACOBS
Dunand	David		C	94-NC-172	JACOBS	JACOBS
Greitzer	Edward		M	94-NC-158	WARD	WARD
Hei	Chiang		C	94-NA-101	A	FANT
Willsky	Alan			94-N-124	LEWIS	LEWIS
Katz	I. Norman		S	94-NA-171	JACOBS	JACOBS
Holt	Dave			94-NA-162	JACOBS	JACOBS
Schrobillen	G.		J	94-NA-106	SAKELL	SAKELL
Harean	Eric		S	94-NC-154	BERMAN	BERMAN
Hollenbeck	John		R	94-NE-166	WITT	WITT
Josuik	Isona			94-NL-144	TANGNEY	TANGNEY
Mandrekar	Y.			94-NA-086	JONES	JONES
Morgan	Roger		J	94-NA-110	SJOGREN	SJOGREN
Panday	Ravi			94-NC-170	LEE	LEE
Bridges	David			94-NE-122	A	POMRENKE
Chabers	Janice		H	94-NA-118	FANT	FANT
Marcum	David		E	94-NL-085	KOZUMBO	KOZUMBO
Jidham	Philip		L	94-NA-093	SAKELL	SAKELL
Chen	Jeng-I		B	94-NC-122	LEE	LEE
Monet	Seymour			94-NA-118	ERSTFIELD	ERSTFIELD
Cone	Rufus		H	94-NC-134	D	D
Inskar	William		L	94-NE-123	CRAIG	CRAIG
Quinn	Mark		P	94-NL-092	KOZUMBO	KOZUMBO
van Kuijk	Frederik	JGM	T	94-NL-083	A	KOZUMBO
Kidem	Lvi			94-NL-083	LUGINBUL	LUGINBUL
Bauschlicher, Jr.	Charles		H	94-NM-156	BERMAN	BERMAN
Mansur	Najil			94-NA-123	MICHAELE	MICHAELE
Nguyen	Thuy			94-NA-134	JACOBS	JACOBS
Denson	William			94-NL-081	DICKINSON	DICKINSON
Huzy	Geverly			94-NL-061	A	TANGNEY
Linn	Anne			94-NL-064	A	DICKINSON
Caisse	Michael		P	94-NC-071	A	BERMAN
Vincent	Richard		J	94-NC-075	D	KELLEY

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
National Science Foundation	Fein	Jay	S	94-NL-072	A	KROLL
Naval Research Laboratory	McDonald	Bernie		94-NM-152	A	HOLLAND
New Jersey Institute of Technology	Thompson	Phillip	E	94-NE-188	A	POMRENKE
North Carolina State University	Goode	Phillip		94-NL-163	A	RADOSKI
	Chokani	N		94-NA-121	A	SAKELL
Kasichainula	Jagannadhas			94-NC-151	A	WARD
McCormick	Rodney			94-NE-181	A	SCHLOSSBER
Atwood	David	A		94-NC-101	A	ERSFELD
Dunn	Douglas	E		94-NE-136	A	WITT
Haki	William	S		94-NL-110	A	TANGNEY
McCourt	Mark			94-NL-097	A	COLLINS
Nygard	Kendall	E		94-NM-163	A	GLASSMAN
Rodgers	Kenton	R		94-NC-089	A	LEE
Tuvarajan	Subbaraya			94-NE-133	A	WITT
Chan	Chung			94-NE-189	A	BARKER
Jiang	Hua			94-NI-008	A	HART
Seidman	David	N		94-NC-171	A	WARD
Weitz	Eric			94-NC-173	A	BERMAN
Martin	Joel	J		94-NE-148	A	POMRENKE
Ostrandar	Gary	K		94-NL-094	A	KOZUMBO
Joshi	Ravindra	P		94-NE-192	D	WITT
Li	Wu			94-NM-086	A	SJOGREN
Peters	Frank			94-NE-116	D	SCHLOSSBER
Schuman	Paul	D		94-NC-147	D	LEE
Martin	Bryan			94-NR-136	D	JACOBS
Moody	John	E		94-NM-102	A	MAKSMAN
DeAmbrosio	Bruce			94-NM-170	A	MAKSMAN
Knight	John	T		94-NL-096	A	KOZUMBO
Williamson	Steve			94-NE-101	A	WITT
Smith	Garald	A		94-NE-092	A	KELLEY
Hussey	Thomas			94-NM-101	A	JACOBS
Phillips	Clairryce			94-NC-072	A	LEE
Lau	Richard	C		94-NL-071	D	KROLL
Photomatix, Inc.	Jesse	A		94-NC-174	D	MACHMAN
Jrion Graduate Institute	Kalin			94-NE-118	D	SCHLOSSBER
Jrion Graduate Institute	Thomas			94-NC-137	D	ERSFELD
Juachita Baptist University	Rawlins			94-NL-069	A	KROLL
PICFONIX	Arnold			94-NE-099	A	CRAIG
Pennsylvania State University	Tamar	T.		94-NE-098	A	SCHLOSSBER
Phillip, Laboratory	Tassilius			94-NR-111	D	SJOGREN
Phillip, Lau	Corcoran	J		94-NE-110	D	SCHLOSSBER
Photomatix, Inc.	Savage			94-NE-133	A	GLASSMAN
Phirixos Research and Development Inc	Sam			94-NA-133	A	NACHMAN
Physical Optics Corporation	Philip	J		94-NA-169	A	BERMAN
Physical Research Inc	Herschel			94-NC-083	A	TANGNEY
Physical Sciences Inc	Anne			94-NC-141	A	TISMOKOFF
Polytechnic University	Sanford			94-NA-128	A	ERSFELD
Pursue University	Kotik	K		94-NC-125	D	ERSFELD
Quantum Electronics, Inc.	Lee			94-NE-084	D	ERSFELD
Quantum Kinetics, Inc.	Highs	O				

## INSTITUTION

LAST NAME

FIRST NAME

MIDDLE

PROPOSAL

STATUS

PM NAME

J J Lee Group Inc	Schweer	Fred	C	WEINSTOCK
Radioelectronics Corporation	Solheim	Frederick	C	ERSTFIELD
Radior Group	Edelsohn	Charles	R	KROLL
Research Development Corporation	Leddo	John	R	KROLL
Rice University	Sykes	William	M	TANGNEY
Rockwell International, Science Center	Benard	David	J	JACOBS
Rutgers - The State University	Izarski	Allen	J	PERRAM
SAC School of Mines & Technology	Sontag	Eduardo	J	TISHKOFF
SAMAS Corporation	Heldson, Jr.	John	O	JACOBS
SOI International	Duff	William	H	JACOBS
SVT Associate Inc	Sakon	Roberta	P	KROLL
Schwartz Electro-Jutics Inc	Van Hoye	James	H	ERSTFIELD
Schwartz Electro-Jutics Inc.	Acharekar	Madhu	H	BERMAN
Science & Engineering Services	Moulton	Peter	F	WITT
Sensoric Research Associates, Inc.	Lee	H. Sang	F	SCHLOSSBER
Sensorics Unlimited Inc	Gruban	Harold	H	SCHLOSSBER
South Carolina State University	Vermaak	Jacobus	S	KROLL
Southern Illinois University	Dharewadkar	Shriram	R	WARD
Southern Univ.--Cent. of Mechanical Eng.	Spector	Scott	J	NACHMAN
Southeast Sciences, Inc.	Mirshams	Reza	A	WITT
Spectra Diode Laboratories, Inc	Hoyde	Christian	94-NC-102	WITT
Spira Corporation	Sanders	Steve	94-NC-067	KROLL
St. Louis University	Waarts	Robert	94-NE-174	SCHLOSSBER
Stanford University	Namavar	Fareydoon	94-NE-107	SCHLOSSBER
State University of New York	Mitchell	Brian	94-NE-112	WITT
Steven, Institute of Technology	Cannon	Robert	94-NC-125	DICKINSON
Swales & Associates, Inc	Chu	Steven	94-NC-106	JACOBS
Synergistic Technical Services Inc	Harris	So.	94-NC-102	KELLEY
Syracuse Univ - Dant Elec & Computer Eng	MacCormack	Robert	94-NE-097	SAKELL
FLC Precision Baker Technology Inc	Zare	Richard	94-NE-119	BERMAN
Fax 3 A and M Research Foundation	Prasad	Paras	94-NC-082	LEE
The Armed Forces Radiobiology Research	Samuel	Arthur	94-NC-077	TANGNEY
The Insti Group	Calvetti	Daniela	94-NL-063	SJOGREN
Trinational Research Corp	Teti	Nicholas	94-NM-117	GLASSMAN
Trinational Software Controls, Inc	Shi	Chi	94-NM-129	JACOBS
The Rand Corporation	Wang	Hong	94-NI-007	HART
Kandisay	Mukherjee	Sayan	94-NE-165	WITT
McGeer	Chen	Goong	94-NM-093	JACOBS
Evans, Jr.	Hojan	Harry	94-NA-083	JONES
Gerstenberger	Li	Ta-Hsin	94-NM-118	SJOGREN
	Vance	J.	94-NA-097	JONES
	Sathasiva	M	94-NL-065	HADDAD
	Tad	B	94-NL-119	KROLL
	John	M	94-NH-126	JACOBS
	Michael	D	94-NM-121	JACOBS

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STATISTICS - A. - ACCEPTED. 0. - DECEIVED. 0. - MISLEAD.

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ulane Univ -- School of Medicine  
ulane University

U.S. Army Photographic Engineering Center  
Cornell University  
United Engineering Trustees Inc.  
United Technologies Research Center  
Albion, New York

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University of Texas  
University of Wisconsin  
University of Wyoming  
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University of Montana  
University of New Mexico  
University of Oklahoma  
University of Oregon  
University of Southern California  
University of Texas  
University of Washington  
University of Wyoming

## Urban Center for Research and Education - CURE

INVESTIGATOR

Carl Gernofsky	Bhanderu
Radhakrishna Murthy	Asher
Rubinstein	Jeffrey
Tasker	George
Lissnerman	John V. E.
Hansen	David
Piehler	Charles
Frieman	Meredith
Colket	Thomas
Barr	

Toe	Gehrels
Lyon	Melvin
Salamo	Grayory
Xiao	Min
Glaser	Donald
Wardner	William
Luhansky, Jr.	Neville
Mukherjee	Asiya
Hackenzie	John
Sarkar	Sutanu
Vecchio	Kenneth
Jansson	S.
Metzlau	Maria
Steigman	George
Vusudevan	Vijay
Michl	Josef
Pak	Ronald V
Hecht	Norman
Angell	Thomas
Schraeder	James

schaefer III:  
Strobel  
Rottblat  
Hals  
Ausruecke  
Krier  
Li  
Lan

MISSOURI STATE BANK

A	44-ML-062	A	44-ML-073	A	44-ML-169	A	44-ML-154	A	44-ML-087	A	44-ML-176	A	44-ML-191	A	44-ML-166	A	44-ML-081	A	44-MA-100	A	44-NC-161	A	44-MA-087	A	44-NC-164	A	44-NE-121	A	44-NC-073	A	44-NC-162	A	44-NA-080	A	44-EO-01	A	44-NA-107	A	44-NN-113
	RADOSKI		RADOSKI		COLLINS		PONRENKE		SCHLOSSBER		JACOBS		SJOGREN		BARKER		WARD		PECHENIK		SAKELL		JONES		BERMAN		CRAIG		WARD		BERMAN		LEWIS		JANISZEWSK		JACOBS		SJOGREN

BERMAN	D
SCHLOSSBER	D
TANGNEY	D
JONES	D
COLLINS	D
BIRKAN	A
MACHMAN	D
MONTGOMER	D
196-NC-155	
196-NF-119	
196-NL-134	
196-NA-092	
196-NL-063	
196-NA-108	
196-NH-093	
196-NA-115	

NAME

WUNDO  
WUNDO  
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SCHWEY  
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LOSSBER  
LOSSBER  
KNOFF

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CLINS  
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HMAN  
MICHAEL

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Kentucky Research Foundation	Man	Chi-Sing		94-NM-157	A	MACHMAN
Univ of Leeds	Manisworth	Roger		94-NL-138	A	COLLINS
Univ of Louisville	Cohn	Robert		94-NE-125	A	CRAIG
Univ of Maryland	Alexander	Millard		94-NC-139	A	BERMAN
Univ of Massachusetts	Destler	William		94-NE-190	A	BARKER
Univ of Michigan	Mathews	Thomas		94-NM-177	A	SJOGREN
Univ of Minnesota	Krishna	Co-Mani		94-NM-150	A	LUGINBAHL
Univ of Missouri	Bernstein	Dennis		94-NM-173	A	JACOBS
Univ of Tennessee	Jhattachary	Pallab		94-NE-094	A	WITT
Univ of Wisconsin	Chen	I-Mei		94-NC-183	A	PECHENIK
Univ of Wyoming	Gombosi	Thomas		94-NM-085	A	JACOBS
Univ of Wisconsin	Norris	Theodore		94-NE-100	A	WITT
Univ of Wisconsin	Rand	Stephen		94-NE-185	A	SCHLOSSBER
Univ of Wisconsin	Friedman	Avner		94-NM-100	A	NACHMAN
Univ of Minnesota	Elshehreni	Alef		94-NM-143	A	SJOGREN
Univ of Minnesota	Hanson	Donald		94-NE-139	D	WITT
Univ of Minnesota	Sinha	F		94-NE-139	D	WITT
Univ of Mississippi Medical Center	Smith	K		94-NA-117	FANT	
Univ of Missouri	Hume	Charles	E	94-NE-137	WITT	
Univ of Missouri	Norcum	Arthur	S	94-NL-084	KOZUMBO	
Univ of Missouri	Balakrishnan	Mona	T	94-NL-093	MADDAD	
Univ of Missouri	Jasu	Asit	P	94-NM-091	A	JACOBS
Univ of Missouri	Slam	Frank	D	94-NC-098	A	SJOGREN
Univ of Missouri	Brown	Jason	J	94-NA-084	A	WITT
Univ of Missouri	DeFacio	Brian	J	94-NA-166	A	ERSTFIELD
Univ of Missouri	Handoll	Peter	P	94-NE-183	A	CRAIG
Univ of Missouri	Leventis	Nicholas	I	94-NC-111	BARKER	
Univ of Missouri	Mese	Jon	H	94-NE-120	LEE	
Univ of Missouri	Murphy	Richard	D	94-NE-152	WITT	
Univ of Missouri	Nasrallah	Magdi	H	94-NC-091	LEE	
Univ of Missouri	Switzer	Jay	A	94-NC-100	PECHENIK	
Univ of Missouri	Welsh	William	J	94-NC-129	LEE	
Univ of Nevada	Ianno	N	J	94-NE-153	BARKER	
Univ of Nevada	Naqahban	Mehrdad	P	94-NC-092	LEE	
Univ of New Mexico	Woods	Joseph	P	94-NE-129	A	WITT
Univ of New Orleans	Anderson	John	G	94-NL-076	DICKINSON	
Univ of New Orleans	Thompson	Jeffrey	S	94-NE-129	KELLEY	
Univ of New Orleans	Venkatasubramanian	R		94-NE-157	PORRENKE	
Univ of New Orleans	Ortiz	J-		94-NE-144	GERMAN	
Univ of New Orleans	Alexander	Gerianne	V	94-NC-165	COLLINS	
Univ of New Orleans	Azzam	Rasheed	H	94-NL-080	CRAIG	
Univ of New Orleans	Chen	Ning-Cheng	H	94-NE-126	WITT	
Univ of New Orleans	Hegseth	John	J	94-NA-114	MCMICHAEL	
Univ of New Orleans	Hui	David		94-NM-094	NACHMAN	
Univ of New Orleans	Lee	Shing		94-NE-155	SCHLOSSBER	
Univ of New Orleans	May	James	G	94-NL-111	TANGNEY	
Univ of New Orleans	Wiley	John	B	94-NC-115	ERSTFIELD	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Notre Dame	Bernstein	Gary		94-NE-179	A	POMRENKE
	Jacobs	Dennis		94-NC-080	A	BERMAN
	Lent	Craig		94-NE-095	A	POMRENKE
Univ of Oklahoma	Glatzhofer	Daniel	T	94-NC-099	A	BERMAN
	McCann	Patrick	J	94-NE-155	A	SCHLOSSBER
	Xu	Qin		94-NL-107	A	KROLL
Univ of Oklahoma, College of Medicine	Dorner	Kenneth	J	94-NL-113	A	TANGNEY
	Espinosa-Varas	Blas		94-NL-112	A	TANGNEY
	Kellam	Michael	E	94-NC-087	A	BERMAN
Univ of Oregon	Bonnell	Dawn	A	94-NC-126	A	PECHENIK
Univ of Pennsylvania	Buchbaum	Gerhard		94-NL-140	A	TANGNEY
	Poppe	David	P	94-NC-182	A	WARD
Univ of Rochester	Eberly	E		94-NE-184	A	SCHLOSSBER
	Randall	George	E	94-NL-074	A	DICKINSON
	Sutton	Michael	A	94-NC-107	A	WARD
	Redekop	Larry	G	94-NA-123	A	MCMICHAEL
	Weber	William	P	94-NC-152	D	LEE
Univ of South Carolina	Griffin	Anselm	C	94-NC-153	D	LEE
	Pojman	John	A	94-NC-108	A	LEE
Univ of Southern California				94-NC-106	A	LEE
				94-NC-163	A	LEE
				94-NC-130	A	WITT
Univ of Southern Mississippi	Dayoumi	Maged	A	94-NE-131	A	WITT
				94-NE-132	A	WITT
Univ of Southwest Louisiana	Glass, Sr	Gary		94-NE-187	A	BARKER
	Laroussi	Houseir		94-NE-096	A	BARKER
	Weitsman	J. Reese	J	94-NA-098	A	JONES
Univ of Tennessee	Weitsman	Richard	J	94-NC-129	D	ERSTFELD
	Lagos	Lu	K	94-NA-094	D	SAKELL
		Wofford	C	94-NL-148	D	TANGNEY
		Zhang	Xiaodong			GASSMAN
		Frohlich	Cliff	94-NA-151	A	DICKINSON
	Hoeppner	David		94-NC-115	A	JONES
Univ of Texas at Austin	Houston	Dryver	R	94-NA-026	A	CRAIG
	Kapp	Bruce	S	94-NL-100	A	HADDAD
	Oujhstun	Kurt	E	94-NM-164	A	NACHMAN
	Squires	Kyle	D	94-NA-113	A	MCMICHAEL
	Yarhue	Walter	J	94-NE-143	A	POMRENKE
Univ of Utah	Monaker	Michael		94-NL-066	A	HADDAD
Univ of Virginia	Wert	John	A	94-NC-177	A	WARD
	Öberhardt	D Scott		94-NA-105	A	SAKELL
	Hanks	Steven		94-NM-153	A	WAKSMAN
Univ of Waterloo	Bernath	Peter	F	94-NC-150	A	BERMAN
Univ of Wisconsin	Chan	T. Austin		94-NC-180	A	WARD
	Crim	F. Fleising		94-NC-142	A	BERMAN
	Glenberg	Arthur		94-NL-136	A	TANGNEY
	Jenison	Rick		94-NL-133	A	TANGNEY
	Siegel	Frank	L	94-NL-143	A	2312/AS

REPORT DATE: 06/15/74

INSTITUTION INDEX ( 1 JAN 94 - 31 MAR 94)  
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Wyoming	Bohle	David	Scott	94-NL-093	KOZUMBO	
	Smithson	Scott	B	94-NL-078	DICKINSON	
University of Alabama	Haskew	Timothy	A	94-NA-116	MCMICHAEL	
	Kim	Yeon-Jaik		94-NC-095	LEE	
University of Idaho	Nikles	David	E	94-NC-093	LEE	
	Fletcher	T. Rick		94-NC-119	BERMAN	
	Kearney	Robert	J	94-NC-112	PECHENIK	
	Kellogg	Scott	T	94-NL-095	KOZUMBO	
	Morra	Matthew	J	94-NC-143	HEDBERG	
	Pesic	Battic		94-NC-140	HEDBERG	
	Taylor	Patrick	R	94-NC-109	PECHENIK	
	Yeh	Wei Jiang		94-NE-140	WEINSTOCK	
	von Wandruszka	Ray		94-NC-113	HEDBERG	
Vatell Corporation	Hayer	Jonathan	H	94-NA-111	MCMICHAEL	
Venice Lasers	Partanen	Jouni		94-NE-168	D SCHLOSSBER	
Virginia Polytechnic Inst & State Univ	Curtin	Y		94-NA-084	JONES	
	Hafika	Raphael	T	94-NA-155	GLASSMAN	
	Simpson	Roger	L	94-NA-122	FANT	
Visual Computing Systems Corporation	Stehura	Paul		94-NA-140	D JACOBS	
Washington State University	Saberi	Ali		94-NA-168	JACOBS	
Dashington University	Byrnes	C.	I	94-NA-161	A JACOBS	
	Rodin	Ervin	Y	94-NA-159	GLASSMAN	
	Fan	Y		94-NE-172	D SCHLOSSBER	
West Stom Co	Kuhlman	John	H	94-NA-112	A MCMICHAEL	
West Virginia University	Giles	Nancy	C	94-NE-146	POMRENKE	
Dichita State University	Ravigururajan	T	S	94-NA-119	FANT	
	Aright	Douglas		94-NA-159	GLASSMAN	
Lau	McLarty	Fritz		94-XP-002	A ZARBO	
	Schueremeyer	Rosel	L	94-NI-013	A GLASSMAN	
	Rivera			94-NN-139	D TANGNEY	
	Tarr	Michael	J	94-NL-116		
	Zacharias	David	S	94-NL-123	D KROLL	

**PART 2**

REPORT DATE 06/15/94

PROPOSAL STATUS REPORT ( 1 JAN 94 - 31 MAR 94 )  
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 1

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
DYNAMIC SIMULATION OF PILES UNDER GROUND SHOCK LOADING		Ronald V S Pak	N 36 03/01/94 \$269,458	LEWIS	94-MA-080	
WHOLE-FIELD MEASUREMENTS IN GAS-PHASE TURBULENT FLOWS		Paul Diotakis	N 09 06/01/94 \$139,945	A MCMICHAEL	94-MA-061	\$139,945 01/03/94 \$139,945
INTERGRANULAR DAMAGE & FRACTURE IN CERAMICS & SUPERALLOYS AT ELEVATED TEMPERATURES UNDER MULTIAXIAL STRESSES	AT ELEVATED TEMPERATURES UNDER MULTIAXIAL STRESSES	K Mslia	N 36 07/01/94 \$353,449	JONES	94-MA-082	
CEMENT LINE INTERPHASE EFFECTS ON THE DYNAMIC MECHANICAL BEHAVIOR OF HAVINGIAN COMPACT HONE TISSUE	Texes A and N Research Foundation	Harry Moran	R 12 07/01/94 \$82,184	JONES	94-MA-083	
TOUGHENING OF HETEROGENOUS CERAMICS		Curtin	N 24 07/01/94 \$207,466	JONES	94-MA-084	
FAILURE LAWS AND MICROMECHANISMS OF DEFORMATION FOR LAMINATED CARBON-CARBON COMPOSITES UNDER BI-AXIAL LOADING	Jarrett College	Vujay Gupta	N 36 07/01/94 \$330,011	JONES	94-MA-085	
CHARACTERIZATION OF INTERFACES IN METAL-MATRIX COMPOSITES	Michigan State University	Leona Jaszuk	N 36 07/01/94 \$156,765	JONES	94-MA-086	
THERMAL AND OFF-AXIS BEHAVIOR OF METAL MATRIX COMPOSITES	Univ of California, Santa Barbara	Jansson S	N 36 07/01/94 \$399,069	JONES	94-MA-087	
Mechanics of MATERIALS AND INTERFACES IN MICROELECTRONIC DEVICES	Florida Institute of Technology	Liu Sheng	N 36 07/01/94 \$255,333	JONES	94-MA-088	

TITLE TITLE: (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	INITIATE START DATE TO/AT	
				TYPE	MONTHS
REACTION KINETICS OF PHOSPHINE-SEEDED FLAMES	Yarowski	N 36 10/01/94 \$499,458	TISHKOFF 94-NA-089		
Rockwell International, Science Center	Allen				
MECHANISMS: CONTROLLING SOOT FORMATION IN DIFFUSION FLAMES	Meredith	N 36 11/01/94 \$421,942	TISHKOFF 94-NA-090		
United Technologies Research Center					
SOURCES OF FRAGILITY IN REACTION BONDED POROUS SILICON NITRIDE	Ali	R 04 27/01/94 \$45,160	JONES 94-NA-091		
Massachusetts Institute of Technology					
SOURCES OF TOUGHNESS IN REACTION BONDED POROUS SILICON NITRIDE	Argon	R 04 01/02/94 \$45,160	JONES 94-NA-092		
Massachusetts Institute of Technology	Ali				
COMPUTATIONAL SIMULATION OF UNSTEADY, VISCOUS, HYPERSONIC FLOW ABOUT FLIGHT VEHICLES WITH STORE SEPARATION	Marcus	N 36 07/02/94 \$436,046	SAKELL 94-NA-093		
Mississippi State University	David				
HYPERSONIC TURBULENT BOUNDARY LAYER SUBJECTED TO STRONG COMPRESSION-EXPANSION DISTURBANCES	Lu	N 36 07/02/94 \$333,016	SAKELL 94-NA-094		
UNIV OF TEXAS	Frank				
SUBSTANTIATIONAL ISSUES IN THE COALESCENCE-BASIC PROCESSING OF POLYMER POWDERS AND COLLOIDS	Anand	N 24 07/02/94 \$125,600	LEWIS 94-NA-095		
Interton Central Research Development	Jagota				
INVESTIGATION OF MUZELIN, THE FRETTING AND PITTING, CORROSION FATIGUE PROCESSES IN STRUCTURAL ALUMINUM ALLOYS	Hoepner	N 37 07/02/94 \$454,400	JONES 94-NA-096		
Univ of Utah	David				
RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS TECH UNIVERSITY, 1994-95	Vance	R 12 08/02/94 \$42,962	JONES 94-NA-097		
Texas A and M Research Foundation	J.				

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	INITIATE START DATE TOT AMT
THE MECHANICAL RESPONSE OF CROSS-PLY AND ANGLE-PLY CERAMIC COMPOSITES Univ of Tennessee Kleitman	Y	N 36 08/02/94 \$109,735	A JONES 94-NA-098	\$34,798 01/07/94 \$109,735
WORKSHOP ON HIGH-PERFORMANCE GEOMEMBRANE MATERIALS AND SYSTEMS CIVIL Engineering Research Foundation	Magnell	N 12 08/02/94 \$5,000	A LEWIS 94-NA-099	\$5,000 15/11/93 \$5,000
IRECT NUMERICAL SIMULATION OF COMPRESSIBILITY EFFECTS IN THE HIGH-SPEED, TURBULENT BOUNDARY LAYER Iniv of California, San Diego	Sarkar	N 36 14/02/94 \$179,920	SAKELL 94-NA-100	
CAFRAPIT MASSACHUSETTS INSTITUTE OF TECHNOLOGY Massachusetts Institute of Technology	Gretzner	R 12 17/02/94 \$51,395	A FANT 94-NA-101	\$51,395 01/09/94 \$51,395
UAL ANAL OF THE DYNAMICAL BEHAVIOR OF MANEUVERING AIRCRAFT INCLUDING THE GLOWE TRIC DYNAMIC AND AERODYNAMIC NONLINEARITIES Boston University	Stoebean	N 36 22/02/94 \$303,798	MU 94-NA-102	
HYPersonic T & E WORKSHOP Arnold Engineering Development Center	Briskiti	N 09 23/02/94 \$19,779	A SAKELL 94-NA-103	\$19,779 23/02/94 \$19,779
IRECT NUMERICAL SIMULATION OF TURBULENCE Univ of Alabama	Chung	R 36 23/02/94 \$358,941	SAKELL 94-NA-104	
AN UNSTRUCTURED, CONJUGATE GRADIENT METHOD APPLIED TO UNSTEADY, HYPersonic, 2-DIMENSION, FLOW PROBLEMS Iniv of Washington	Eberhardt	N 35 24/02/94 \$222,463	A SAKELL 94-NA-105	\$100,000 15/09/94 \$300,000
UNSTRUCTURED GRID EFFICIENTS IN COMPRESSIBLE VISCOUS FLOWS McDonnell Douglas Aerospace	Holt	N 24 25/02/94 \$120,000	D SAKELL 94-NA-106	

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE PROPOSAL #	START DATE
40-N-2: NUCLEIUM PROCESSES IN ARCJET PLASMAS			R 11	A	\$50,000	01/08/94
Univ of Illinois - Urbana Champaign	Krier	Herman	04/03/94 \$50,000	BIRKAN	94-NA-109	\$50,000
(S91F) HIGH FREQUENCY RESPONSE MEA FLUX SENSOR FOR TURBOMACHINERY						
Univ Research & Development Inc	Mageri	Patrick	N 06 07/03/94 \$59,745	MCMICHAEL	94-NA-109	
(S91R) ENHANCED FAST RESPONSE HEAT TRANSFER SENSORS						
Istratix	G	Chang	N 06 07/03/94 \$59,994	MCMICHAEL	94-NA-110	
(S91F94) HIGH TEMPERATURE SENSORS AND ARRAYS FOR TURBOMACHINES						
Watell Corporation	Hager	Jonathan	N 06 07/03/94 \$99,065	A	\$99,066	14/07/94
(C9PSCOR93) DEVELOPMENT OF DOPPLER GLOBAL VELOCIMETER (DGV) FOR AERONAUTICS AND COMBUSTION STUDIES						
West Virginia Univ. Research Corporation	Kuhiman	John	N 36 09/03/94 \$406,438	MCMICHAEL	94-NA-111	\$99,066
(C9PSCOR93) LARGE-EDDY SIMULATION OF ROTATING, THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS						
Univ of Vermont	Squires	Kyle	N 36 09/03/94 \$189,673	MCMICHAEL	94-NA-112	
(C9PSCOR93) MAGNETOGRAPHIC 3-D VELOCITY FIELD MEASUREMENTS IN TURBULENT FLOWS						
Jniv of New Orleans	Heyseth	John	N 36 09/03/94 \$329,931	MCMICHAEL	94-NA-113	
(C9PSCOR93) NONLINEAR FLUX STABILITY ANALYSIS						
Univ of Kansas	Center for Research	Lin	N 36 09/03/94 \$382,356	MCMICHAEL	94-NA-114	
(C9PSCOR93) ELECTRIC ACTUATOR COMPONENT SELECTION AND PERFORMANCE IN MARSH ENVIRONMENTS						
University of Alabama	Marked	Timothy	N 36 09/03/94 \$395,208	MCMICHAEL	94-NA-115	

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE
(DEPSCOR33) INVESTIGATING THE PERFORMANCE OF MICRO-ACOUSTICAL TRANSPORTERS FOR CONTROL OF INTERNAL UNSTEADY SEPARATING FLOWS	Sumon Sinha	N 36 16/03/94 \$210,379	FANT 94-NA-117	
(DEPSCOR33) CONTROL OF DYNAMIC STALL USING DISTRIBUTED SUCTION	David Bridges	N 36 16/03/94 \$308,053	FANT 94-NA-118	
(DEPSCOR33) ROCK-IT-COMAUSTOR LIFE AND PERFORMANCE IMPROVEMENT: COOLANT-CHANNEL HEAT TRANSFER ENHANCEMENT	Reviyururajan Achits State University	N 24 16/03/94 \$68,352	FANT 94-NA-119	
(DEPSCOR33) LOCAL MEASUREMENTS & DIRECT NUMERICAL SIMULATION OF TURBULENT FLOW IN ROTATING DUCTS	Dimitris Nikitopoulos	N 36 16/03/94 \$336,160	FANT 94-NA-120	
INTERNAL STORE CARRIAGE AND SEPARATION AT HYPERSONIC SPEEDS	Chokani			
North Carolina State University	Roger Sampson	N	SAKELL 94-NA-121	R 36 17/03/94 \$156,024
FUNDAMENTAL STRUCTURE OF TURBULENT CONVECTIVE HEAT TRANSFER IN 3-D TURBULENT SURFACE LAYERS, INCLUDING FREESTREAM TURBULENCE EFFECTS	Roger Sampson	N 36 16/03/94 \$255,000	FANT 94-NA-122	
FLOW-VECTRING, CONTROL OF JETS	Larry Redekopp	R 36 17/03/94 \$147,075	MCMICHAEL 94-NA-123	
'Univ of Southern California	Mei Chiang	N 36 17/03/94 \$218,888	LEWIS 94-NA-124	
FLOW AND DISPERSION IN DEFORMABLE POROUS MEDIA				
'Massachusetts Institute of Technology	J Tinsley Oden	N 36 17/03/94 \$397,518	A JONES 94-NA-125	\$160,338 15/07/94 \$80,275
DYNAMIC INSTABILITY, IN FLOW-STRUCTURE INTERACTIONS, FLUTTER AND THERMITING				
Computational Mechanics Company Inc				

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT		
DIRECT NUMERICAL SIMULATION OF COMPRESSIBLE TURBULENT BOUNDARY LAWS	Robert MacCormack	N 12 17/03/94 \$86,798	SAKELL 94-NA-126			
LIMIT CYCLE OSCILLATION/TRANSONIC HIGH ALPHA FLOW VISUALIZATION	Atlee Cunningham	N 36 18/03/94 \$528,474	FANT 94-NA-127	A	\$50,000	01/07/94 \$317,912
PROPOSED CONTINUATION FOR AIR FORCE RESEARCH ON AEROPROPULSION TECHNOLOGY (AFRAPT)	Fleeter	R 12 21/03/94 \$83,744	TISHKOFF 94-NA-128	A	\$83,744	15/08/94 \$83,744
NASA Ames COMPUTER GRAPHICS SUPPORT FOR PAPIL MOLIN	Sanford Mansour	N 06 22/03/94 \$18,494	MCMICHAEL 94-NA-129	A	\$17,494	01/04/94 \$17,494
RESIDUAL AND THERMAL STRESSES IN THIN FILMS AND INTERCONNECTS	Gennady Cherepanov	N 12 24/03/94 \$43,973	WU 94-NA-130	A	\$43,973	01/08/94 \$43,973

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				TYPE	MONTHS
PHOTOPHYSICS OF HIGH ENERGY DENSITY MATERIALS National Inst. of Standards & Technology	Cassassa	N 12 05/01/94 \$50,000	A BERMAN 94-NC-071	\$50,000 01/10/93 \$50,000	
A CYLINDER (CONTAINING TO BE PROVIDED BY PL/SEM) OF PENTABORANE (-250ML) Philips Labs	Claircyce	N 12 05/01/94 \$850	A LEE 94-NC-072	\$850 01/01/94 \$850	
HALOGEN ACID: VISIBLE CHEMICAL LASER Rockwell International, Science Center	Bernard	R 12 06/01/94 \$250,000	A PERRAM 94-NC-073	\$248,432 15/06/94 \$250,000	
NEAR THRESHOLD REACTION OF OCJP WITH H2, H2O AND HCN: VELOCITY- SELECTED LASER-ALIQUOT STATE-TO-STATE STUDIES IN CROSSED MOL. BEA National Inst. of Standards & Technology	Cassassa	N 36 11/01/94 \$390,000	GERMAN 94-NC-075		
QUANTUM DYNAMICAL STUDIES OF ENERGETIC SOLID DECOMPOSITION Inradyne Research Inc	Brown	N 36 11/01/94 \$403,591	BERMAN 94-NC-076		
PROCESSING OF UV/VIS CHROMOPHORES FOR ELECTRO-OPTIC APPLICATIONS State University of New York	Prasad	N 36 13/01/94 \$524,998	A LEE 94-NC-077	\$80,000 01/06/94 \$80,000	
A STUDY OF PHASE UTILIZATION AND TR INFORMATION IN THE NEUTR-AL SYSTEM Univ of Cincinnati	Vasudevan	N 36 13/01/94 \$422,029	WARD 94-NC-079		
MICROSTATIC AND STATIC EFFECTS IN ION/SURFACE REACTIVE SCATTERING Univ of Notre Dame	Jacobs	N 36 19/01/94 \$372,533	BERMAN 94-NC-080		
MICROSTRUCTURE: LKIC- FILM, Univ of California Los Angeles	McKenzie	N 12 25/01/94 \$49,500	A PECHENIK 94-NC-081	\$49,500 15/04/94 \$49,500	

TITLE TITLE (CONT'D) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
STATE-RESOLVING REACTION DYNAMICS Stanford University	Lare	Richard	BERMAN \$804,926	94-NC-082	
DESIGN CONCEPTS FOR CONTROLLING MOLECULAR MOTION Princeton University	Rebitz	Herschel	BERMAN \$611,374	94-NC-083	
A NEW INSTRUMENT FOR DETECTING HIDDEN CORROSION AND THE ONSET OF CORROSION DAMAGE IN AIRCRAFT Quantum Magnetics, Inc.	Hibbs	Andrew	01/02/94 \$59,954	01/02/94 \$59,954	01/02/94 \$59,954
CORROSION MECHANISMS IN HIGH STRENGTH AL AIRFRAME ALLOYS ASVAC Inc.	Reynolds	George	01/02/94 \$59,900	01/02/94 \$59,900	01/02/94 \$59,900
AIRFRAMING DETECTION OF ATMOSPHERIC CORROSION ON METALLIC SURFACES Aerodynamics Research Inc.	Creedman	A.	01/02/94 \$59,990	01/02/94 \$59,990	01/02/94 \$59,990
DYNAMICS AND SPECTRA OF HIGHLY FACETED MOLECULES Univ of Oregon	Kellman	Michael	BERMAN \$320,070	03/02/94 \$320,070	03/02/94 \$320,070
CORROSION OF AIRCRAFT MATERIALS: CORRELATION BETWEEN NANOMETER SCALE AND MACROSCOPIC STRUCTURAL DATA, E PARAMETERS LYNAT-CHI, Inc.	Gonzalez-Martin	Anuncia	04/02/94 \$60,000	04/02/94 \$60,000	04/02/94 \$60,000
DEVELOPMENT OF THE BACTERIAL PHOTOFACITION CENTER SPECIAL PAIR AS NONLINEAR OPTICAL MATERIALS North Dakota State University	Rodgers	Kenton	LEE \$308,671	04/02/94 \$308,671	04/02/94 \$308,671
DEVELOPMENT CYCLOCHELTIN CHEMISTRY FOR POLYMER PRODUCTION Louisiana State University	Warner	Isiah	LEE \$426,448	04/02/94 \$426,448	04/02/94 \$426,448
			LEE 94-NC-080		LEE 94-NC-080

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT		STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
		TYPE	MONTHS		
DEPSCOR93 IMPROVED RELIABILITY OF FERROELECTRIC AND OXIDE CONDUCTING THIN FILMS FROM POLYMERIC PRECURSORS Univ of Missouri	Magdi Nassef	N	36 04/02/94 \$405,623	LEE 94-NC-091	
DEPSCOR93 THERMO-MECHANICAL EFFECT OF CRYSTALLIZATION IN SOLID POLYMER COMPOSITES Univ of Nebraska	Mehrdad Nejahban	N	36 04/02/94 \$220,559	LEE 94-NC-092	
DEPSCOR93 NEAR INFRARED CHROMOPHORES FOR SMART APPLICATIONS: NAPHTHALOCYANINE METAL COMPOUNDS University of Alabama	David Nuckles	N	36 04/02/94 \$569,095	LEE 94-NC-093	
DEPSCOR93 SUSCEPTIBILITY MEASUREMENT INSTRUMENTATION FOR ORGANIC MATERIALS Univ of Alabama	Barry Thomas	N	24 04/02/94 \$294,595	LEE 94-NC-094	
DEPSCOR93 TAILORING PHYSICAL PROPERTIES OF THIN FILMS BY CONTROLLED POLYMERIZATION AND SOLVATION University of Alabama	Kia Yeon-Taik	N	36 04/02/94 \$323,591	LEE 94-NC-095	
DEPSCOR93 LOW TEMPERATURE CHEMICAL VAPOR DEPOSITION OF DIELECTRIC AND FERROELECTRIC THIN FILMS Louisiana State University	Griffin Gregory	N	36 04/02/94 \$294,410	ERSTFIELD 94-NC-096	
DEPSCOR93 MCC-LIN, OF FRACTURE PROCESS IN FIBER REINFORCED CERAMICS Tulane University	Rubinstein Asher	N	36 04/02/94 \$266,002	PECHENIK 94-NC-097	
DEPSCOR93 DYNAMICS OF SURFACE-BOUNDED POLYMERS Univ of Missouri	Blum Frank	N	36 04/02/94 \$316,533	LEE 94-NC-098	
DEPSCOR93 POLYIMIDOCYCLOPHANES: A NEW CLASS OF INSENSITIVE, HIGH ENERGY DENSITY MATERIALS Univ of Oklahoma	Glatzhofer Daniel	N	36 04/02/94 \$366,631	BERMAN 94-NC-099	

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DEPSO933 ELECTROPOLENT DEFECT-CHEMISTRY SUPERLATTICES Univ of Missouri	Switzer Jay	N 36 04/02/94 \$474,739	PECHENIK 94-NC-100	
DEPSO933 SOLID-STATE SYNTHESSES OF 14/16 (IV-VI) ELECTRONIC MATERIALS North Dakota State University	Atwood David	N 36 04/02/94 \$326,301	ERSTFIELD 94-NC-101	
DEPSO933 PLASTIC ANISOTROPY AND AGING PROCESS EFFECTS ON THE STRUCTURE AND TENSILE PROPERTIES OF AL-LI ALLOY SHEETS Southern Univ.-Dept. of Mechanical Eng.	Reza Marshaei	N 36 04/02/94 \$309,177	WARD 94-NC-102	
DEPSO933 FUNDAMENTAL BATTERY STUDIES FOR ELECTRIC VEHICLES Louisiana State University	Gale Robert	N 36 04/02/94 \$109,558	ERSTFIELD 94-NC-103	
DEPSO933 CATALYTIC DEHYDROGENATION OF INCOHERMIC FUELS IN A MEMBRANE REACTOR AT SUPERCRITICAL CONDITIONS Univ of Kansas, Center for Research Subramanian Sela		N 36 04/02/94 \$296,002	ERSTFIELD 94-NC-104	
DEPSO933 MULTIPHASE NICKEL ALUMINIDES WITH A B2 MATRIX Auburn University	Gale Villies	N 36 04/02/94 \$320,074	WARD 94-NC-105	
DEPSO933 PREPARATION POLYMERIZATION FRONTS Univ of Southern Mississippi	Pojman John	N 36 04/02/94 \$260,275	LEE 94-NC-106	\$260,275 01/09/94 \$260,275
DEPSO933 CHEMICAL CAVITATE AND LIFE PREDICTION FOR HIGH TEMPERATURE MATERIALS Univ of South Carolina	Sutton Michael	N 36 04/02/94 \$375,000	WARD 94-NC-107	
DEPSO933 MOLECULARLY DESIGNED AUXETIC POLYMERS: A REMARKABLE NEW CLASS OF MATERIALS Univ of Southern Mississipi	Griffin Anselm	N 36 04/02/94 \$371,115	LEE 94-NC-108	

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TITLE (CONT.)	RECEIVED	PROGRAM MANAGER	START DATE
INSTITUTION	AMOUNT	PROPOSAL #	TOY ANT
DEPSCOR93 INDUCTIVELY COUPLED PLASMA SYNTHESIS OF CARBON NITRIDE	N 36 04/02/94 \$305,449	PECHENIK 94-NC-109	
University of Idaho Taylor	Ralph		
DEPSCOR93 JCIVING AND STABILITY OF REFRACRY ALLOY SINGLE CRYSTALS FOR HIGH TEMPERATURE STRUCTURES	N 36 04/02/94 \$206,702	WARD 94-NC-110	
Auburn University Zee			
DEPSCOR93 MICROELECTROCHEMICAL SERVICES	N 36 04/02/94 \$341,519	ERSTFIELD 01/07/94	
Univ of Missouri Loveralis	Nicholas		
DEPSCOR93 PLASMA SYNTHESIS OF NANOSIZED METAL, METAL OXIDE AND METAL NITRIDE POWDER	N 36 04/02/94 \$306,479	PECHENIK 94-NC-111	
University of Idaho Kearney	Robert		
DEPSCOR93 DECONTAMINATION OF SOIL BY CLOUD POINT EXTRACTION OF POLLUTANTS	N 36 04/02/94 \$195,326	HEDBERG 94-NC-112	
University of Idaho von Wandruszka	Ray		
DEPSCOR93 CLOUD-PHASE TRANSFORMATION TOUGHENING OF GAMMA TIAL	N 36 04/02/94 \$264,283	WARD 94-NC-113	
Clemson University Grujici	Nica		
DEPSCOR93 LOW TEMPERATURE ROUTES TO NEW MATERIALS FOR MAGNETIC DATA STORAGE	N 36 04/02/94 \$337,220	ERSTFIELD 94-NC-115	
Univ of New Orleans Wiley	John		
DEPSCOR93 HYBRID NLO DIFFUSER/DEFUSER FOR POWER LIMITING	N 36 04/02/94 \$299,404	LEE 94-NC-116	
Univ of Alabama Lawson	Chris		
DEPSCOR93 COMBINED MATERIALS MODELING AND CONTROL METH. FOR FAB. OF ADVANCED METALLICS AND INTERMETALLICS	N 36 04/02/94 \$373,579	WARD 94-NC-117	
Clemson University Rack	Henry		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	INITIATE START DATE TOT AMT	
				TYPE	MONTHS
DEPSCOR93 NONLINEAR OPTICS IN ORGANIC SINGLE CRYSTAL FILMS	Mrinal Thakur	N 36 LEE \$321,081	94-NC-118		
Auburn University					
DEPSCOR93 A NOVEL MATRIX ISOLATION/LASER ABLATION PULSED SOURCE OF HIGH ENERGY INTERMEDIATES FOR STATE-TO-STATE STUDIES IN MOLECULAR DYN. University of Idaho	T. Rick Fletcher	N 36 08/02/94 \$362,541	BERMAN 94-NC-119		
University of Missouri					
DEPSCOR93 RATIONAL DESIGN OF NOVEL POLYMERS POSSESSING SUPERIOR IMPACT STRENGTH AND AGILE-LASER PROTECTION	William Welsh	N 36 08/02/94 \$539,963	BERMAN 94-NC-120		
Univ of Missouri					
DEPSCOR93 THERMOCHEMICAL AND KINETIC MEASUREMENTS RELATED TO COMBUSTION OF ORGANOPHOSPHOROUS COMPOUNDS	Don Setser	N 36 08/02/94 \$414,202	BERMAN 94-NC-121		
Kansas State University					
DEPSCOR93 INVESTIGATION OF MOLECULAR ORIENTATIONS OF LIQUID CRYSTALLINE POLYESTERS	Philip Oldham	N 36 08/02/94 \$396,602	BERMAN 94-NC-122		
Mississippi State University					
DEPSCOR93 STRUCTURE & INTERFACE PROPERTIES OF NANOPHASE CERAMICS: MULTIMILLION PARTICLE MOLECULAR-DYNAMICS SIMULATIONS ON PARALLEL C	Rajiv Kalia	N 36 08/02/94 \$393,770	BERMAN 94-NC-123		
Louisiana State University					
DEPSCOR93 INSENSITIVE HIGH EXPLOSIVES - A COMPUTATIONAL STUDY	Lamberska	N 36 08/02/94 \$349,681	BERMAN 94-NC-124		
Univ of Alabama					
A SUPERAMOLECULAR APPROACH TO THE MECHANISMS OF PHOTOMINERALIZATION OF HAZARDOUS MATERIALS	Koop	N 36 08/02/94 \$461,155	HEDEBERG 94-NC-125		
Columbia University					
COMPOUND SEPARATION FOR INTERFACE MOIFICATION IN VAC/ALUMINA COMPOSITES	Nicholas Turro	N 36 08/02/94 \$467,845	PECHENIK 94-NC-126		
Univ of Pennsylvania					

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				PROPOSAL #	INITIATE START DATE TOT AMT
SYNTHESIS OF POLYACRILIC THIN FILMS FOR PHOTONIC APPLICATIONS	L. Lindsay	N 12 08/02/94 \$6,000	LEE D	94-NC-127	
American Chemical Society	Geoffrey				
WEAK INTERACTIONS OF MORON, ALUMINUM, AND CARBON ATOMS	Paul	N 36 15/02/94 \$250,160	BERMAN A	94-NC-128	
Johns Hopkins University	Dagdigan				
NEW DEVELOPMENTS IN THE CHEMISTRY OF ACETYLENIC CARBON MODEL COMPOUNDS: ON THE ROAD TO THE SYNTHESIS OF LINEAR "SP" CARBON LAYER	Richard	N 36 15/02/94 \$375,000	ERSTFIELD D	94-NC-129	
University of Texas					
DETECTORS FOR HIDDEN CHEMICAL CORROSION	William	N 06 15/02/94 \$60,000	ERSTFIELD D	94-NC-130	
Siemens Corporation	Duff				
DETECTORS FOR HIDEN CHEMICAL CORROSION	Fred	N 06 15/02/94 \$58,471	ERSTFIELD D	94-NC-131	
RJ Lee Group Inc	Schaefer				
ELECTROCHEMICAL IMPEDANCE PATTERN RECOGNITION FOR DETECTION OF HIDDEN CHEMICAL CORROSION IN AIRCRAFT COMPONENTS	Anthony	N 06 15/02/94 \$59,996	ERSTFIELD A	94-NC-132	
Eltron Research Inc	Samuels				
THE USE OF ELECTROCHEMISTRY AND ELLIPSOMETRY FOR IDENTIFYING AND EVALUATING CORROSION IN AIRCRAFT	C. Acres	N 06 15/02/94 \$59,067	ERSTFIELD A	94-NC-133	
Dacco Sci Inc	Chester				
NON-DESTRUCTIVE AND NON-DESTRUCTIVE DETECTION	Seymour	N 06 15/02/94 \$59,288	ERSTFIELD D	94-NC-134	
Non-Destructive Research	Monat				
DETECTORS FOR HIDDEN OR HIDDEN CHEMICAL CORROSION ON AIRFRAMES	Lee	N 06 15/02/94 \$59,977	ERSTFIELD D	94-NC-135	
Lucent Electronic Technology, Inc	Kotik				

TITLE TITLE (CONT'D) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
APPLICATION OF THERMAL WAVE TECHNIQUE FOR SURFACE AND INTERFACE ROUGHNESS EVALUATION Lichman Consulting	Fishman Illya	N 06 15/02/94 \$98,750	D FRSTFIELD	94-NC-136
EARLY DETECTION AND MITIGATION OF AIRCRAFT CORROSION Physical Research Inc	Thome David	N 06 15/02/94 \$59,943	D FRSTFIELD	94-NC-137
EM-WAVE & SONANT METHODS FOR THE DETECTION OF CORROSION Conductus, Inc.	Martens Jon	N 06 15/02/94 \$59,991	A FRSTFIELD	94-NC-138
FEAK INTERACTIONS OF IONIC, ALUMINUM, AND CARBON ATOMS Univ of Maryland	Alexander Millard	N 36 15/02/94 \$222,370	BERMAN	94-NC-139
DEVELOPMENT OF NOVEL METAL SORBENTS FOR THE DEFENSE INDUSTRY CHITOSANS FOR REMOVAL/RECOVERY OF HAZARDOUS METALS University of Idaho	Pasic Batrice	N 36 17/02/94 \$303,944	HEDBERG	94-NC-140
DEVELOPMENT OF FIELDABLE ANALYTICAL INSTRUMENTATION FOR COMPOUND-SPECIFIC DETECTION OF VOLATILE & SEMIVOLATILE ORGANIC ... Louisiana State University	Overton Edward	N 36 17/02/94 \$374,164	FRSTFIELD	94-NC-141
INTRAMOLECULAR AND INTERMOLECULAR ENERGY TRANSFER IN HIGHLY VIBRATIONALLY EXCITED MOLECULES Univ of Wisconsin	Craig F. Fleming	N 36 17/02/94 \$610,575	BERMAN	94-NC-142
MECHANISM OF CATALYSIS OF SELECTIVE DEHALOGENATION IN SOILS AND DECOMPOSITIONS OF EXTRACELLULAR TETRAPYRROLES University of Tokyo	Morriss Matthew	N 36 22/02/94 \$264,338	HEDBERG	94-NC-143
COMPUTER SIMULATIONS OF GROWTH PHENOMENA ON SOLID SURFACES Univ of California, Santa Barbara	Metiu Horacio	N 36 31/03/94 \$378,976	BERMAN	94-NC-144

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ANALYTICAL METHODS USING SLATER-TYPE ORBITALS IN QUANTUM CHEMISTRY				
Florida, ACM University	Herbert Jones	N 36 03/03/94 \$300,000	BERMAN 94-NC-145	
NOVEL SGL-GRL LIQUIDATION PROCESS FOR REPAIR OF CONDUCTING PATHS IN POLYCARBONIC SYSTEMS	Guang-Way Jang	N 24 03/03/94 \$500,000	LEE 94-NC-146	
PROCESS DEVELOPMENT FOR THE MANUFACTURE OF ACRYLIC FLUOROCARBON OPTICAL FIBER CLEAVING POLYMERS	Paul Schuman	N 24 03/03/94 \$725,502	LEE 94-NC-147	
1994 NOVEL SOL-GEL BASED INTERPENETRATING POLYMER NETWORKS AS PRACTICAL SECOND-UPTEM NONLINEAR OPTICAL MATERIALS	Jeng-I Chen	N 24 03/03/94 \$499,064	LEE 94-NC-148	
ENERGY TRANSFER PROCESSES IN IODINE LASERS	Michael Heaven	N 36 03/03/94 \$324,698	BERMAN 94-NC-149	
FOURIER TRANSFORM SPECTROSCOPY OF NOVEL PROPELLANT MOLECULES	Peter Birnath	N 36 08/03/94 \$224,462	BERMAN 94-NC-150	
LAST AND ION-ENHANCED POSSUMIN USE HIGH TEMPERATURE WEAR RESISTANT COATING ON TITANIUM ALLOYS	Jagannathadu Kasichainula	N 36 11/03/94 \$495,354	HARD 94-NC-151	
1) CATALYTIC POLYMERIZATION COPOLYMERIZATION OF AROMATIC COMPOUNDS 2) AROMATIC POLYMERIZATION OF ARYL C-H BONDS ACROSS C-C DOUBLE BONDS...	William Weber	N 36 11/03/94 \$448,570	LEE 94-NC-152	
PIRACYLIC POLY(1,3-DI-CHIMERIC)	William Weber	N 36 11/03/94 \$453,676	LEE 94-NC-153	

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		AMOUNT	YOT AMT							
SYNTHESSES AND STRUCTURAL CHARACTERIZATION OF NEW LIGHT ELEMENT INORGANIC OXIDES, FUELS, AND MONOPROPELLANTS Rochester University	G.	N 36 11/03/94 \$630,117	BERMAN 94-NC-154							
FUNDAMENTAL STUDIES OF HIGH ENERGY DENSITY MOLECULAR SYSTEMS Univ of Georgia	Henry	N 36 15/03/94 \$525,340	BERMAN 94-NC-155							
Mechanical Properties and Phase Transformations of Laves Phases Univ. Western Reserve University	P.	N 36 15/03/94 \$453,000	WARD 94-NC-156							
MICROSTRUCTURAL DESIGN OF TOUGH CERAMICS FOR CONTACT DAMAGE Lehigh University	Helen	N 36 15/03/94 \$810,317	PECHENIK 94-NC-157							
REFRACTORY-METAL-DISPERSION STRENGTH-NEW NIAL Massachusetts Institute of Technology	David	N 12 15/03/94 \$34,225	WARD 94-NC-158							
THE SMALL DECOMPOSITION OF YTO, TITAN AND MANGANESE CSD PROPOSAL NO. 13230603, CAS- NO. 4331-0003 Inlet of Laser, - Albuquerque Upper Office	Tom	N 48 17/03/94 \$300,000	BERMAN 94-NC-159							
1994 ORGANIC RESEARCH CONFERENCE ON INORGANIC CHEMISTRY Jerton Research Conference Inc	Gregory	N 12 22/03/94 \$5,500	ERSTFIELD 94-NC-160							
FAST RESPONSE LIQUID CRYSTALS FOR ELECTRO-OPTIC APPLICATIONS Univ. Aircraft Cord Research Labs	Shin-Tson Mu	N 36 23/03/94 \$1449,994	LEE 94-NC-161							
HIGH ENERGY FORMS OF OXYGEN Univ of Colorado	Joseph Michel	N 36 23/03/94 \$456,300	BERMAN 94-NC-162							

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE
INSTITUTION			AMOUNT	PROGRAM MANAGER	START DATE
PROPAGATING POLYMERIZATION FRONTS					
Univ of Southern Mississippi	PoJian	John	N 36 23/03/94 \$245,200	LEE	TOY ART 94-NC-163
STUDY OF THE COMPRESSION BEHAVIOR OF HIGH PERFORMANCE FIRERS					
Georgia Tech Research Corporation	Kumar	Satish	R 12 24/03/94 \$79,986	A LEE	\$79,957 01/07/94 \$80,000
METAL-STABILIZED LOCALIZATION IN HYDROGEN CLUSTER POLYMERS					
Univ of New Mexico	Ortiz	J.	N 36 29/03/94 \$327,771	D BERMAN	94-NC-165
FUNCTIONAL INVESTIGATIONS OF CREEP IN PARTICLE-STRENGTHENED NB-11 -AL-Cr ALLOYS					
Univ of California, Davis	Mukherjee	Ananya	N 36 29/03/94 \$567,996	WARD	94-NC-166
EXPERIMENTAL STUDIES TO PRODUCE AND CHARACTERIZE METALLIC HYDROGEN AT HIGH PRESSURES					
Harvard University	Silvers	Isaac	N 36 29/03/94 \$555,939	BERMAN	94-NC-167
SINGLE CRYSTALS GROWN FROM POLYCRYSTALLINE PRECURSORS					
Lehigh University	Harmer	H.	N 36 29/03/94 \$974,803	PECHENIK	94-NC-168
SUPPLEMENTARY FUNDING FOR THE 12TH INTERNATIONAL SYMPOSIUM ON PLASMA CH-MISPT (IIPPC 12)					
Itasca Consulting Group Inc	Heberlein	Joachim	N 12 29/03/94 \$9,000	D BERMAN	94-NC-169
CHARACTERIZATION AND CRITICAL FUNDAMENTAL AGING MECHANISMS OF HIGH TEMPERATURE POLYMER MATRIX COMPOSITES					
Michigan State University	Morgan	Roger	N 36 31/03/94 \$363,185	LEE	94-NC-170
MECHANICAL PROPERTIES OF INTERNAL INTERFACES IN APPLIED STRESS FIELDS: COMPUTER SIMULATION STUDIES					
Northwestern University	Sardman	David	N 36 31/03/94 \$400,000	WARD	94-NC-171

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				TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
LITHIUM OXIDES - A COMPUTATIONAL STUDY Univ. of Alabama	Lamertson Koop	31/03/94 \$391,758	36 BERMAN 94-NC-172		
NUCLEAR ENERGY REACTOR SYSTEMS IN CRYOGENIC MEDIA: STRUCTURE, DYNAMICS AND ENERGY STORAGE Northwestern University	Weitz Eric	31/03/94 \$429,126	36 BERMAN 94-NC-173		
OLIN STATE CRYSTAL CONVERSION Central Electric Co	Levinson Lionel	31/03/94 \$994,037	24 PECHENIK 94-NC-174		
THE BEHAVIOR OF VARIOUS ATOMIC IMPURITIES STABILIZED IN SOLID H2 AND IN MATERIALS Colorado State University	Etters Richard	31/03/94 \$71,367	12 BERMAN 94-NC-175		
UNIVARIATE SOLID OXIDES AND SOLID FUEL ADDITIVES GEI International	Saxon Robert	31/03/94 \$458,109	36 BERMAN 94-NC-176		
THE MICROSTRUCTURAL OPIURIS OF PRIMARY CRIMP RESISTANCE IN TITANIUM ALLOYS Univ. of Virginia	Wert John	31/03/94 \$409,603	36 WARD 94-NC-177		
AN INITIATIVE CALCULATION TO SUPPORT THE EXPERIMENTAL CHARACTERIZATION OF SMALL MOLECULES OF INTEREST TO THE HEDM PROGRAM DASA - Ames Research Center	Rauschlicher, Jr. Charles	31/03/94 \$286,600	36 BERMAN 94-NC-178		
LAYER STRUCTURE COMPOUNDS AS BOUNDARY PHASES IN CERAMIC MATRIX COMPOSITES Arizona State University	Patotskey William	31/03/94 \$678,369	36 PECHENIK 94-NC-179		
A FUNDAMENTAL STUDY ON THE THERMODYNAMIC, KINETIC AND MECHANICAL STABILITIES OF INTERFACES IN SiC-FIBER REINFORCED TITANIUM MMCs Univ. of Wisconsin	Chang Y. Austin	31/03/94 \$465,000	36 WARD 94-NC-180		

TITLE FILE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED			STATUS PROGRAM MANAGER			INITIATE START DATE TOT AMT
		AMOUNT	PROPOSAL #	PROPOSAL #	PROPOSAL #			
STRAIN RATE AND TEMPERATURE EFFECTS IN Ti-MODIFIED Nb3Al INTERMETALLICS Univ of California, San Diego	Vecchio Kenneth	N 36 31/03/94 \$448,732	WARD 94-NC-181					
A NEW MODEL OF THE DUCTILE-TO-DUCTILE TRANSITION BASED ON A COLLECTIVE-DUCTILEATION SEPARATION INSTABILITY: THEORY & EXPERIMENT Poly of Pennsylvania	Pope David	N 36 31/03/94 \$590,300	WARD 94-NC-182					
NON-OXIDE STRUCTURAL CERAMICS -- ALLOY DESIGN FOR IMPROVED SINTERABILITY AND MECHANICAL PERFORMANCE Univ of Michigan	Chen I-Wei	N 36 31/03/94 \$997,062	PECHENIK 94-NC-183					

TITLE TITLE (CONT'D) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY ANT
NONLINEAR-EMISSION, SPONGE-HARMONIC GENERATION AND NONLINEAR OPTICAL ) VIBRATIONAL COINCIDENCE FOR ASYMMETRIC QUANTUM WELL STRUCTURES ) DING ) Tsinghua University	Yujie	N 12 03/01/94 \$25,000	A CRAIG 94-NE-088	\$25,000 01/01/94 \$25,000
OCN FILM, (ATOMIC) PARTICLE BASED PERSISTENT SPECTRAL HOLE UNIV. OF ) VITEL ) Polytechnic University	Arnold	N 24 03/01/94 \$161,670	A CRAIG 94-NE-089	\$85,999 15/03/94 \$161,670
CHARGE/MATERIAL STUDY OF EFFICIENT PLASMA SOURCES KNOXVILLE COLLEGE	Ridder	N 36 04/01/94 \$561,486	A BARKER 94-NE-090	
ITERGRAC AND TRANSPORT OF ANTIPROTONS Pennsylvania State University	Smith	R 12 04/01/94 \$90,720	A KELLEY 94-NE-092	\$90,720 15/04/94 \$90,720
QUANTUM TRANSPORT IN ULTRASMALL DEVICES Arizona State University	Ferry	N 12 04/01/94 \$6,300	D POMRENKE 94-NE-093	
SPATIAL GROWTH AND CHARACTERIZATION OF SIC(-A) AND (X) MATERIALS AND DEVICES ) Univ. of Michigan	Anantacharye	R 35 13/01/94 \$469,465	A WITT 94-NE-094	\$150,000 15/08/94 \$469,465
CHARGE/MATERIAL STUDY ) Univ. of Notre Dame	Lent	N 36 14/01/94 \$360,000	POMRENKE 94-NE-095	
INVESTIGATION OF A UNIFORM GLOW DISCHARGE PLASMA IN ATMOSPHERIC AIR ) Univ. of Tennessee	Roth	N 36 14/01/94 \$119,854	A BARKER 94-NE-096	\$39,916 15/04/94 \$119,854
COULING AND TRANSPORT OF ATOMS AND PARTICLES ) Stanford University	Chu	R 36 19/01/94 \$770,777	A KELLEY 94-NE-097	\$192,000 01/09/94 \$602,000

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	TOY ANT
INTERNATIONAL SYMPOSIUM ON GUIDED-WAVE OPTOELECTRONICS: DEVICE CHARACTERIZATION, ANALYSIS AND DESIGN	Polytechnic University	T. Tseir	N 18 26/01/94 \$5,000	18 26/01/94 \$5,000	SCHLOSSBER 94-NE-098			
FORTY FIFTH ANNUAL GASEOUS ELECTRONICS CONFERENCE	National Inst. of Standards & Technology	Van Brunt						
CARRIER DYNAMICS AND DEFECTS IN GAAS AND RELATED PHOTOCURRENTS	Univ of Michigan	Richard Norris	N 12 26/01/94 \$8,000	12 26/01/94 \$8,000	KELLEY 94-NE-099			
(SMIP) S-PICOSECOND PHOTOCONDUCTIVE SAMPLING OSCILLOSCOPE	Univ of Michigan	Theodore Williamson	N 36 26/01/94 \$497,791	36 26/01/94 \$497,791	WITT			
(SMIP) MID-INFRARED DIODE LASERS USING NON-STOICHIOMETRIC SEMI-INSULATING AL <sub>1-x</sub> Ga <sub>x</sub> As <sub>0.5</sub> Se <sub>0.5</sub>	Sensors Unlimited Inc	Steve Vermaak	N 06 02/02/94 \$60,000	06 02/02/94 \$60,000	WITT			
(SMIP) INVESTIGATION OF PLASMA OPTICAL WAVEGUIDES AND MODULATORS IN LOW TEMPERATURE GROWTH (LTG) GALLIUM ARSENIDE (GAAS)	AT&T Research Corp	Jacobus Cites	N 06 02/02/94 \$53,573	06 02/02/94 \$53,573	WITT			
(SMIP) ULTRACAST PHOTOSTRUCTURES ON NON-STOICHIOMETRIC GAAS	Univ Corporation	Jeffrey Doorn	N 06 02/02/94 \$59,983	06 02/02/94 \$59,983	WITT			
(SMIP) TRAVELING WAVE OPTICAL MODULATORS USING NON-STOICHIOMETRIC GAAS TO MATCH THE BURIED OPTICAL AND MILLIMETER WAVELENGTHS	APL Inc.	Harold Rubin	N 06 02/02/94 \$53,960	06 02/02/94 \$53,960	WITT			
(SMIP) OPTO-ELECTRONIC COMPONENTS FROM NON-STOICHIOMETRIC III-V MATERIALS	Scientific Research Associates, Inc.		N 06 15/06/94 \$59,960	06 15/06/94 \$59,960	WITT			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE / MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(S-IP) COMPACT LASER SOURCE BASED ON NON-LINEAR OPTICS Schmitz Electro-Optics Inc	Acharekar	Madhu	N 06 02/02/94 \$59,771	D 0 SCHLOSSBER 94-NE-107
(S-IP) MICROSTRUCTURE FOR EFFICIENT NONLINEAR CONVERSION Merry Compression Research Corporation	McIntyre	Ian	N 06 02/02/94 \$59,938	D 0 SCHLOSSBER 94-NE-108
(S-IP) COMPACT LIGHT SOURCE IN JUDGED WAVE NONLINEAR FREQUENCY CONVERSION -Tek Dynamics Incorporated	Pini	J	N 06 02/02/94 \$59,977	D 0 SCHLOSSBER 94-NE-109
(S-IP) PRACTICAL HIGH-QUALITY LASER Photonics Synthesis Inc. (PSI)	Corcoran	V	N 06 02/02/94 \$99,113	D 0 SCHLOSSBER 94-NE-110
(S-IP) COMPACT SOURCE OF COHERENT VISUAL LIGHT Astralux	Rice	Robert	N 06 02/02/94 \$59,997	D 0 SCHLOSSBER 94-NE-111
(S-IP) INEFFICIENT THREE-COLOR GENERATION FOR PROJECTION DISPLAY Schmitz Electro-Optics Inc.	Moulton	Peter	N 06 02/02/94 \$58,540	D 0 SCHLOSSBER 94-NE-112
(S-IP) A COMPACT AND EFFICIENT VISUAL LASER SOURCE Lightwave Electronics Corporation	Gerstenberger	D	N 06 02/02/94 \$60,000	A 0 SCHLOSSBER 94-NE-113
(S-IP) COMPACT LASER SOURCE Neicon Research Co	Deacon	David	N 06 02/02/94 \$60,000	A 0 SCHLOSSBER 94-NE-114
(S-IP) ACTIVE-OPTIC STABILIZATION OF HIGH POWER DIODE LASERS Foster-Miller Inc	Deenash	Lawrence	N 06 02/02/94 \$53,959	D 0 SCHLOSSBER 94-NE-115

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE TOT AMT
(SAIR) UV, BLUE AND GREEN VERTICAL CAVITY LASERS	Peters	Frank	N 06 02/02/94 \$49,962	D SCHLOSSBER 94-ME-116	
Optical Concepts, Inc					
(SAIR) CW INTRACAVITY DOWNSIZED LASER	Pierce	Jeff	N 06 02/02/94 \$60,000	D SCHLOSSBER 94-ME-117	
Cygnus Laser Corporation					
(SAIR) DIODE PUMPED TUNABLE (1.35 - 1.55 UM) SOLID STATE LASER	Ralim		N 06 02/02/94 \$59,998	D SCHLOSSBER 94-ME-118	
Physical Optics Corporation	Spariosu				
PROPOSAL FOR MOUËLING INNER-SHELL PHOTO-IONIZATION X-RAY LASERS	Strobel	George	N 12 03/02/94 \$53,786	D SCHLOSSBER 94-ME-119	
Univ of Georgia					
OPTIMIZATION OF FAIRY-PÉROT MULTI-QUANTUM WELL OPTICAL MODULATORS	Waese	Jon	N 36 03/02/94 \$490,473	CRAIG 94-ME-120	
Univ of Missouri					
NOVEL FREQUENCY CONVERSION PHENOMENA BASED ON POLED POLYMERS	Stegeeman	George	N 36 03/02/94 \$773,826	CRAIG 94-ME-121	
Univ of Central Florida					
VEFET-INDUCED OPTICAL PROPERTIES OF SILICA AND DIFECT ENERGETICS	Pandey	Ravi	N 12 03/02/94 \$24,990	A POMRENKE 94-ME-122	\$41,804 15/06/94 \$41,804
IF 7NS-#2 Michigan Technological University					
(OPSSCR-#3) PERSISTENT SPECTRAL HOLE BURNING MATERIALS FOR TIME- AND FREQUENCY DOMAIN OPTICAL MEMORIES AND SIGNAL PROCESSING	Cone	Rufus	N 36 01/02/94 \$450,434	CRAIG 94-ME-123	
Fontana State University					
(OPSSCR-#3) NON-DESTRUCTIVE TESTING OF OPTOELECTRONIC DEVICES AND SYSTEMS AT FULLER MATRIX IMAGING POLARIMETRY	Chidemian	Russell	N 36 01/02/94 \$433,747	CRAIG 94-ME-124	
Univ of Electro					

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COEPSCOR-33) SPATIAL LIGHT MODULATORS PROPERTIES ON OPTICAL PERFORMANCE JINV OF LOUISVILLE	Cohn	N 36 07/02/94 \$421,807	CRAIG 94-NE-125	
COEPSCOR-33) GUIDED-MWAV. ELLIPSOMETRY AND POLARIMETRY JINV OF NEW ORLEANS	Azzam	N 36 07/02/94 \$400,100	CRAIG 94-NE-126	
COEPSCOR-33) ADVANCED CABLE AND WIRE ASSEMBLY UNIV OF VERMONT	Rasheed	N 36 07/02/94 \$334,163	CRAIG 94-NE-127	
COEPSCOR-33) PROJECT ASSISTING CHEMICAL VAPOR DEPOSITION FOR PACKAGING AND FAIRPLAY OF DIJET-AND GAP SEMICONDUCTING DEVICES JINV OF NEBRASKA	Woods	N 36 07/02/94 \$357,111	WITT 94-NE-128	\$351,111 01/09/94 \$351,111
COEPSCOR-33) DESIGN AND MODELING OF SILICON-GERMANIUM SIPOLAR TECHNOLOGY FOR WIRELESS COMMUNICATIONS AUBURN UNIVERSITY	Cressler	N 36 07/02/94 \$271,767	WITT 94-NE-129	
COEPSCOR-33) JUST DESIGN-FOR-MANUFACTURABILITY: A FIELD MANAGEMENT APPROACH JINV OF SOUTHEASTERN LOUISIANA	Bayoumi	N 36 07/02/94 \$395,082	WITT 94-NE-130	
COEPSCOR-33) A DESIGN-M-TECHNOLOGY FOR SYNTHESIS OF APPLICATION SPECIFIC MULTI-CHIP MODULE ARCHITECTURES JINV OF SOUTHEASTERN LOUISIANA	Bayoumi	N 36 07/02/94 \$289,074	WITT 94-NE-131	
COEPSCOR-33) SELECTIVE DEPOSITION AND DIFINING OF DIAMOND FILMS ON SILICON SUBSTRATE, USING ION IMPLANTATION JINV OF SOUTHEASTERN LOUISIANA	Glass, Sr	N 36 07/02/94 \$638,957	WITT 94-NE-132	
COEPSCOR-33) HIGH EFFICIENCY MULTI-OUTPUT POWER CONVERSION FOR AIRCRAFT APPLICATION NORTH DAKOTA STATE UNIVERSITY	Fujarajan	N 36 07/02/94 \$145,402	WITT 94-NE-133	
COEPSCOR-33) SUBBARAYA				

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(DEPSCOP 93) EXPLORATORY PSEUDOMORPHIC COMPLEMENTARY HETEROJUNCTION DIPOLAR TRANSISTORS FOR HIGH SPEED APPLICATIONS Louisiana State University	Kiki Koussi-Anastassiou	N 36 07/02/94 \$372,427	WITT 94-NE-134
(DEPSCOR 93) PHYSICS AND MODELING OF ELECTRON TRANSPORT IN ULTRA- FAST SEMICONDUCTOR DEVICES UNIV OF NEW ORLEANS	King-Cheng Cheng	N 36 07/02/94 \$272,363	WITT 94-NE-135
(DEPSCOP 93) DEVELOPMENT OF AN EFFICIENT SUB-MICRON DEVICE SIMULATOR FROM A VELOCITY-SPACE TRANSPORT MODEL NORTH DAKOTA STATE UNIVERSITY	Dunn Douglas	N 36 07/02/94 \$165,319	WITT 94-NE-136
(DEPSCOR 93) APPROVED METHODS FOR MICROWAVE MEASUREMENTS UNIV OF MISSISSIPPI	Smith Charles	N 36 07/02/94 \$267,719	WITT 94-NE-137
(DEPSCOR 93) CROSSTALK REDUCTION IN INTEGRATED CIRCUITS AND MICROWAVE AND MILLIMETER WAVE INTERCONNECTIONS UNIV OF MISSISSIPPI	Elsherbeni Alef	N 36 07/02/94 \$254,493	WITT 94-NE-138
(DEPSCOR 93) LINEAR/NON-LINEAR TRANSFER FUNCTION MODELS FOR THE STRUCTURAL/CHARGE DESCRIPTION OF MICROWAVE/ANALOG SYSTEMS AND UNIV OF MISSISSIPPI	Hanson Donald	N 36 07/02/94 \$325,829	WITT 94-NE-139
(DEPSCOR 93) PLASMA DEPOSITION OF YCO SUPERCONDUCTIVE FILMS ON ARTALS UNIVERSITY OF IDAHO	Yeh Wei Jiang	N 36 07/02/94 \$300,612	WEINSTOCK 94-NE-140
(DEPSCOP 93) CONDUCTION ELECTRON SURFACE IMAGING UNIV OF IDAHO	Irwin George	N 36 07/02/94 \$217,433	WEINSTOCK 94-NE-141
(DEPSCOP 93) LASER-CHEMICAL VAPOR DEPOSITION OF SILICON CARBIDE TO HIGH TEMPERATURE/HIGH POWER ELECTRONICS LUDWIG UNIVERSITY	Tin Chin-Che	N 36 07/02/94 \$406,652	POMRENKE 94-NE-142

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				TYPE	MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #
(C)PSCOR 33) A COMPUTATIONAL MATHEMATICAL MODEL FOR FLOATING-ZONE SINGLE CRYSTAL GROWTH PROCESS	Li	N 36 08/02/94 \$172,143	POMRENKE 94-NE-143			
Ben						
(C)PSCOR 33) NOVEL ELECTRONIC MATERIALS AND DEVICES: THEORY. ADAPTING THE STRUCTURE	Venkata Subramanian R	N 36 08/02/94 \$467,710	POMRENKE 94-NE-144			
Univ of Nevada						
(C)PSCOR 33) LIGHT EMITTING SILICON DEVICES USING OPTICALLY ACTIVE PLATINUM CHALCO	Verhue	N 36 08/02/94 \$287,012	POMRENKE 94-NE-145			
Univ of Vermont						
(C)PSCOR 33) PHOTOELASTIC/ELECTRON PARAMAGNETIC RESONANCE STUDIES STUDIES TO IMPROVE THE PERFORMANCE OF TUNABLE INFRARED LASER MATERIALS	Walter	N 36 08/02/94 \$224,397	POMRENKE 94-NE-146			
Nancy						
(C)PSCOR 33) NONLINEAR OPTICAL PROPERTIES IN GAAS QUANTUM WELL WIRE STRUCTURES WITH ELECTRON-HOLE PLASMA EFFECTS	Frank	N 36 08/02/94 \$245,790	POMRENKE 94-NE-147			
Giles						
Dept. of Physics University of Alberta						
(C)PSCOR 33) A STUDY OF THE PHOTOREFRACTIVE BEHAVIOR OF BISMUTH SILICON OXIDE AND RELATED MATERIALS	Martin	N 36 08/02/94 \$224,999	POMRENKE 94-NE-148			
Oklahoma State University						
(C)PSCOR 33) NONLINEAR, AND CHARACTERIZATION OF HIGH SPEED, HIGH FREQUENCY INGAAS/AlGaAs SYNTHETIC SEMICONDUCTOR STRUCTURES	Salmo	N 36 09/02/94 \$192,667	POMRENKE 94-NE-149			
Univ of Arkansas						
(C)PSCOR 33) AN INVESTIGATION OF NOVEL MONOLITHIC SLAPPER DETONATORS	Gregory	N 36 08/02/94 \$307,648	PARKER 94-NE-150			
Auburn University						
Thomas						
(C)PSCOR 33) SIMULATION OF A PLANAR ARRAY OF ELECTRICAL DETONATOR ELEMENTS	Kenneth	N 36 08/02/94 \$149,206	BARKER 94-NE-151			
Kansas State University						
Carpenter						

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COFPSCOR #33) PARTICLE SIMULATIONS OF PLASMAS UNIV OF MISSOURI	Murphy Richard	N 36 08/02/94 \$195,387	BARKER 94-NE-152	
COFPSCOR #33) OPTICAL DIAGNOSTICS OF HIGH DENSITY ETCHING PLASMAS UNIV OF NEBRASKA	Ianno N	N 36 08/02/94 \$384,609	BARKER 94-NE-153	
COFPSCOR #33) EXPERIMENTAL AND THEORETICAL STUDIES OF NOVEL EFFECTS DUE TO QUANTUM CO-EXISTENCE IN MULTI-LEVEL MEDIA UNIV OF ARKANSAS	Kiaco Min	N 36 08/02/94 \$298,072	SCHLOSSBER 94-NE-154	
COFPSCOR #33) A PROPOSED VERY-HIGH-POWER SINGLE-MODE 2D-ARRAY OF SURFACE-Emitting TRIANGULAR MING LASER UNIV OF NEW ORLEANS	Lee Shing	N 36 08/02/94 \$245,291	SCHLOSSBER 94-NE-155	
COFPSCOR #33) FABRICATION OF HIGH OPERATING TEMPERATURE 410-IRIDIUM LASERS UNIV OF OKLAHOMA	McCann Patrick	N 36 08/02/94 \$526,565	SCHLOSSBER 94-NE-156	
COFPSCOR #33) EXPERIMENTAL STUDIES OF THE INTERACTION OF NEGATIVE IONS WITH INTENSE ELECTROMAGNETIC RADIATION UNIV OF NEW JERSEY	Thompson Jeffrey	N 36 08/02/94 \$251,698	KELLEY 94-NE-157	
COFPSCOR #33) ULTRASONIC FOR HIGH POLLUTION ARRAY IMAGING - CSI MICROSTRUCTURES AND NANOPARTICLE ARRAYS LOUISIANA STATE UNIVERSITY	Cherry Michael	N 36 08/02/94 \$353,247	SMITH 94-NE-158	
COFPSCOR #33) DEVELOPMENT OF THIN-FILM MICRODOSIMETERS/ TRICHLIC, FOR MEASURING AND PREDICTING THE TEMPERATURES IN THIN LAYERED STATE UNIVERSITY	Yed	N 36 08/02/94 \$364,207	SMITH 94-NE-159	
CO-FPSCOR #33) RESEARCH STUDIES ON ELECTRONICALLY INDUCED TRANSPARENCY STANFORD UNIVERSITY	Harris S.	R 36 17/02/94 \$1,379,258	SCHLOSSBER 94-NE-160	

INVESTIGATOR	INSTITUTION	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE DATE	START DATE	TOT AMT
RE: COMBINATIONS OF EXCITED ATOM COLLISIONS AND ION-MOLECULE REACTIONS	Flannery Innovative Tech Research Corporation	R 12 \$105,000	A 18/02/94 \$105,000	KELLEY 94-NE-161		\$105,000	01/07/94	\$105,000
RE: (SOLID) LT GAAS/2.4ULTRAFAST DUAL-WINDOW PHOTODECTOR	Martin Alion Photonics Inc	N 06 22/02/94 \$59,647	D WITT 94-NE-162					
RE: (SOLID) MULTICOLOR DETECTOR USING MBE MONOMER SOURCES	Robert SVT Associate Inc	N 06 22/02/94 \$59,980	D WITT 94-NE-163					
RE: (SOLID) COMMERCIAL-PICTURE-PRACITIVE DEVICE USING NONSTOICHIOMETRIC SILICON-SPINCONDUCTOR	Van Howe Fayebatti Corv. Tak Inc	N 06 22/02/94 \$60,059	A WITT 94-NE-164					
RE: (SOLID) HIGH EFFICIENCY OPTICAL DETECTION AT 1300NM ON GaAs	Parviz Mukherjee FLC Precision Laser Technology Inc	N 06 22/02/94 \$60,000	D WITT 94-NE-165					
RE: (SOLID) DEVELOPMENT OF ULTRAFAST PHOTCONDUCTIVE SWITCHES FOR 1.3 AND 1.5 MICRUM UTILIZING NON-STOICHIOMETRIC III-V MATERIALS	Sayyan Harmon Bellwood Laboratories Inc	N 06 22/02/94 \$58,454	D WITT 94-NE-166					
RE: (SOLID) COMPACT, EFFICIENT CO2 LASER BASED ON UPCONVERSION IN THULIUM-DOPED ZBLAN FIBER	Piehler Dinh-Lee Corporation	N 06 22/02/94 \$59,870	D SCHLOSSBER 94-NE-167					
RE: (SOLID) HIGH CAPABILITY DIODE PUMPED SLUR LASER	Partanen Innolite Lasers	N 06 22/02/94 \$59,680	D SCHLOSSBER 94-NE-168					
RE: (SOLID) DIAM EXPANSION, CAVITY FOR DIODE-PUMPED SOLID-STATE LASERS	Tony IPSS Technology Co	N 06 22/02/94 \$59,910	D SCHLOSSBER 94-NE-169					

PROPOSAL STATUS REPORT ( 1 JAN 94 - 31 MAR 94 )  
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS AMOUNT	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE FOR ANT						
					D 22/02/94 \$60,181	D 22/02/94 \$60,053	D 22/02/94 \$60,000	D 22/02/94 \$60,924	D 22/02/94 \$60,000	D 22/02/94 \$60,983	
(514) MANUFACTURAL WIDELY TUNABLE INTEGRATED SOLID STATE LASERS Corv. Tech Inc	Parviz			SCHLOSSBER 94-NE-170							
(514) OPTICALLY-PUMPED SUM FREQUENCY LASER DEVELOPMENT Intellilight	Seidel			SCHLOSSBER 94-NE-171							
(514) COMPACT HIGH BLU LASER West Stone Co	Finn			SCHLOSSBER 94-NE-172							
(514) LOW COST COMPACT BLU LASER Spectr. Diode Laboratory Inc	Wearts			SCHLOSSBER 94-NE-173							
(514) LOW COST FIBER OPTIC-BLU LASER DIODES Spectr. Diode Laboratory Inc	Sanders			SCHLOSSBER 94-NE-174							
(514) COMPACT LIGHT SOURCES BASED ON NON-LINEAR OPTICS Laser Corporation	Chen			SCHLOSSBER 94-NE-175							
(514) HIGH-POWER LIGHT EMISSION AND HIGH-QUALITY TURBULENT LIGHT FIELD LASER FOR HIGH-POWER LASERS Light Solutions Corp.	Daniel			SCHLOSSBER 94-NE-176							
(514) INTEGRATED LASER FOR DISPLAY APPLICATIONS Laser Corporation	David			SCHLOSSBER 94-NE-177							
(514) OPTICAL TURBULENT LIGHT SOURCE FOR HIGH-POWER OPTICS Optical Research Inc	Day			SCHLOSSBER 94-NE-178							

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE	
				PROGRAM #	PROPOSAL #
LECTICULATION AND LOCAL FIELD EFFECTS IN MESOSCOPIC INTERCONNECTS UNIV OF NOTRE DAME	Gary Bernstein	N 36 22/02/94 \$309,500	A POMRENKE 94-NE-179	\$130,000 01/03/94 \$308,500	
CONFERENCE ON FUTURE PROSPECTS FOR UV AND VUV LASERS United Engineers Trustee's Inc	Charles Freeman	N 12 25/02/94 \$10,000	A SCHLOSSBER 94-NE-180	\$5,000 27/02/94 \$5,000	
A PROPOSAL FOR PARTIAL SUPPORT OF A WORKSHOP TO FURTHER DEVELOP INDUSTRIAL APPLICATIONS North Carolina State University	Rodney McCormick	N 12 25/02/94 \$10,025	A SCHLOSSBER 94-NE-181	\$10,000 10/03/94 \$10,000	
1994 INTERNATIONAL CONFERENCE ON PLASMA SCIENCE Los Alamos National Lab-Adol Theor Phys Div	Anthony Paratt	N 03 28/02/94 \$10,000	A BARKER 94-NE-182	\$10,000 01/03/94 \$10,000	
VAN DER WAAL SYMPOSIUM ON QUANTUM 1/F NOISE AND OTHER LOW FREQUENCY FLUCTUATIONS IN ELECTRONIC DEVICES Univ of Missouri	Peter Mandel	N 06 10/03/94 \$5,000	A WITT 94-NE-183	\$5,000 15/03/94 \$5,000	
SEVENTH DUTCH-ESTATE CONFERENCE ON CONSCIENCE AND QUANTUM OPTICS Univ of Rochester	Eberly	N 24 16/03/94 \$39,950	A SCHLOSSBER 94-NE-184		
LIGHT-EMITTING COOLING: CAVITATION IN SOLIDS Univ of Michigan	Stephen Rand	R 36 16/03/94 \$626,220	A SCHLOSSBER 94-NE-185	\$4,605 01/03/94 \$4,605	
MAGNETIC PARALLEL PROCESSING WITH OPTICAL INTERCONNECTS Univ Computer Society Press	Morris Leroi	N 06 17/03/94 \$4,605	A CRAIG 94-NE-186		
SCATTERING OF MICROWAVES BY STEADY-STATE PLASMA SLABS. COLUMNS. AND LAYERS AT ATMOSPHERIC PRESSURE Univ of Tennessee	Mounir Laroussi	N 36 30/03/94 \$292,347	A HARKER 94-NE-187		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAG. PROPOSAL #	INITIATE START DATE TO ANT
HEAT GROWTH AND CHARACTERIZATION OF SITE FOR INFRARED DETECTOR APPLIED SCIENCES Naval Research Laboratory	Thompson Phillip	N 36 30/03/94 \$316,000	A PORRENKE 94-NE-108	\$45,000 15/07/94 \$256,000
LINEAR AND QUASILINEAR CFA'S FOR IN SITU MEASUREMENTS AND COMPARISON WITH NUMERICAL SIMULATIONS; AND STUDY OF NOISE MECHANISMS Northeastern University	Chung	R 12 30/03/94 \$150,000	A BARKER 94-NE-189	\$150,000 30/09/94 \$150,000
EXPERIMENTAL AND THEORETICAL RESEARCH ON ADVANCED VACUUM ELECTRONIC MICROWAVE DEVICES Univ of Maryland	Castler William	N 36 30/03/94 \$926,147	A BARKER 94-NE-190	\$264,939 30/09/94 \$915,901
STABLE, HIGH-POWER HARMONIC GYROTRON AMPLIFIERS Univ of California, Davis	Luhmann, Jr. David	N 36 30/03/94 \$375,000	A BARKER 94-NE-191	\$125,000 01/09/94 \$375,000
STUDIES OF PHONON TRANSFERT IN SEMICONDUCTOR QUANTUM WIRES Old Dominion Univ Res Foundation Inc.	Joshi Ravindra	N 36 30/03/94 \$150,128	D MITT 94-NE-192	
COUPLED INDUCTIVELY COUPLED IR STARVING ARRAY BASED ON PHOTOLUMINESCENT PIXELS Infrared Microelectronics, Inc.	Hiobs Andreas	N 06 30/03/94 \$59,470	A WEINSTOCK 94-NE-193	\$54,274 15/07/94 \$59,470

TITLE TITLE (CONT'D) INSTITUTION AIR TRAVEL	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT	
				AMOUNT	
HUMAN FACTORS ISSUES IN TIME IMPLEMENTATION OF ADVANCED 4A MANUFACTURING TECHNOLOGY South Carolina State University	Hughes	N 03/01/94 \$8,809	A HUGHES 94-NI-005	\$8,809 94/01/01 \$8,809	
INERTIAL POLARIZATION - SPACE - TIME PROCESSING FOR AIRBORNE HYBRID, JAPAN - First Elec & Computer Eng	Christopher Shriram	N 12/01/94 \$54,819	A HART 94-NI-006	\$54,819 16/05/94 \$54,819	
MICROWAVE EFFECTS IN HIGH TEMPERATURE SUPERCONDUCTING YBCO WIRE LINK JUNCTION Northeastern University	Wang	N 01/02/94 \$58,177	A HART 94-NI-007	\$27,095 94/01/01 \$27,095	
INTEGRATED APPROACH TO SENSORS AND CONTROL OF ALTERNATE CONTROL TECHNOLOGY FLIGHT VEHICLES Air Force Office of Aero Resn and Develop	Jiang	N 15/02/94 \$53,256	A HART 94-NI-008	\$35,504 09/02/94 \$35,504	
CURRENT AND CRODUCIVITY MEASUREMENTS IN OPTICALLY ACTIVE GLASSES Yarmouth College	Innocenti Mario	N 17/02/94 \$52,669	A ZARBO 94-NI-009	\$52,669 01/03/94 \$52,669	
Mechanical Properties of Polymers in Amorphous Full Cells Sorbonne School of Mine	Osterberg Ulf	N 23/02/94 \$24,000	A HART 94-NI-010	\$23,884 15/03/94 \$24,000	
AIR FORCE RESEARCH PROPOSALS FOR Y34	Miller	N 23/02/94 \$24,000	A HART 94-NI-011	\$24,000 15/03/94 \$24,000	
AIR FORCE RESEARCH PROPOSALS FOR Y34	Arnold	N 09/03/94 \$208,950	A SHELDON 94-NI-012	\$208,950 01/04/94 \$208,950	
STUDY OF AIR CUSHIONED MULTECTS AND SUBTHRESHOLD BEHAVIOR IN METAL Flight Lab	dridgeman	N 21/03/94 \$17,000	A ZARBO 94-NI-013	\$17,000 26/04/94 \$17,000	
Schueremeyer Fritz					

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	PROGRAM MANAGER	INITIATE START DATE TOY AMT
BIOLUMINESCENT DETECTION OF ENVIRONMENTAL (PRO) MUTAGENS IN STREET DYES CRISIUS	Sariasslani	N 36 05/01/94 \$240,000	KOZUMBO 94-NL-059		
INFANT Central Research Development					
PERCEPTUAL REPRESENTATIONS AND PROCESSES FOR COMPLEX SOUNDS		R 36 05/01/94 \$365,595	TANGNEY 94-NL-060		
State University of New York	Samuel Arthur	N 12 14/01/94 \$70,000	A TANGNEY 94-NL-061		
CONTINUING COST SUPPORT FOR COMMITTEE ON HUMAN FACTORS					
National Academy of Sciences	Huey Beverly				
ALT-AZ CCU-SCARFINS: ASTEROID MALAROS	Gehrels Tom	N 24 25/01/94 \$330,000	A RADOSKI 94-NL-062		
UNIV OF ARIZONA					
OPTIMAL VIBRATION CONTROL FOR PILOT HEAD/NECK STABILITY OR PERFORMANCE	Amirouche Farid	N 24 25/01/94 \$118,213	D COLLINS 94-NL-063		
UNIV OF ILLINOIS - CHICAGO					
COMMITTEE ON STIMULUS					
ANCE	Linn	N 12 26/01/94 \$30,000	A DICKINSON 94-NL-064		
NATIONAL ACADEMY OF SCIENCES					
VALIDATION OF ANESTHETIC AS A STIMULANT					
THE ARMY CORPS OF ENGINEERS RESEARCH	Kandasamy Sathasiva	N 36 31/01/94 \$346,881	A HADDAD 94-NL-065		
CONTROL OF CONCENTRATION HARRIER BY TRANSPLANTING SUPRACHIASMATIC NUCL					
1 AND 2 THE TAU U IN					
UNIV OF VIRGINIA	Mensker Michael	N 36 07/02/94 \$480,044	A HADDAD 94-NL-066		
INTER-ORGANIC POLYMER STUDY FOR MEASUREMENT OF ATMOSPHERIC WATER					
VISIT AND REPORT TO JPL	Howde Christian	N 08 14/02/94 \$60,000	A KROLL 94-NL-067		
SOUTHWEST SCIENCE, INC.					

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT		
		TYPE/MONTHS RECEIVED	STATUS AMOUNT	PROGRAM MANAGER PROPOSAL #
AFIR-94 REMOTE SENSING USING ULTRA BROADBAND RADIATION Center for Remote Sensing	Ganguly Suman	N 08 14/02/94 \$80,000	KROLL 94-NL-068	
AFIR-94 SPACE-EARTH SENSING OF STRATOSPHERIC/TROPOSPHERIC OZONE AND SULFUR DIOXIDE FOR AIRCRAFT DISTANCE CONTRCL Physical Sciences Inc	W. Terry Rawlins	N 06 14/02/94 \$59,977	KROLL 94-NL-069	
AFIR-94 REMOTE ATMOSPHERIC SENSOR SYSTEMS Center for Remote Sensing	Ganguly Suman	N 08 14/02/94 \$100,000	KROLL 94-NL-070	
AFIR-94 A HIGH FIDUCY LIQUID FUEL RESOLVED REMOTE SENSING OF THE ATMOSPHERE, WATER, SOIL, AND BACKSCATTER RATIO Photometrics, Inc.	Richard Garner	N 08 14/02/94 \$179,058	KROLL 94-NL-071	
NATIONAL ACADEMY OF SCIENCE NASC National Science Foundation	Jay	N 12 14/02/94 \$10,000	KROLL 94-NL-072	
THE PHYSIOLOGY, CHEMISTRY AND MOUFLING OF VISION: VISUAL PROCESSING Inst. of American Soc. for Export Urology Masland	Richard	N 12 15/02/94 \$5,000	TANGNEY 94-NL-073	
AFIR-94 MUSCULIN: THE EFFECT OF LARGE-SCALE HETEROGENEITY ON REGI DURAL STYLIC DEVICE FORMS USING HYBRID SYNTHETICS Univ of South Carolina	Randall George	N 36 16/02/94 \$179,934	DICKINSON 94-NL-074	
AFIR-94 PSCAR3 DIRECTION, LOCATION, AND SOURCE CHARACTERIZATION OF REGI DURAL STYLIC FORMS USING A SMALL BROADBAND ARRAY Univ of South Carolina	James Tolleeg	N 36 16/02/94 \$280,452	DICKINSON 94-NL-075	
AFIR-94 SEISMIC WAVE SCATTERING AND CRYSTAL STRUCTURE Inst of New Eng Anderson	John	N 36 16/02/94 \$284,292	DICKINSON 94-NL-076	

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER		INITIATE START DATE TOT AMT
					AMOUNT	PROPOSAL #	
AFPSCOR93 EXPLORATION THRESHOLDS AND LATERAL 3 VARIATIONS IN EURASIA	AFPSCOR93 EXPLORATION THRESHOLDS AND LATERAL 3 VARIATIONS	Mitchell	Brian	N 36 16/02/94 \$145,740	DICKINSON 94-NL-077		
St. Louis University							
AFPSCOR93 CALIBRATION OF NUCLEAR MONITORING USING UNIQUE SEISMIC DATA SETS FROM THE FORMER SOVIET UNION	AFPSCOR93 CALIBRATION OF NUCLEAR MONITORING USING UNIQUE SEISMIC DATA SETS FROM THE FORMER SOVIET UNION	Smithson	Scott	N 36 16/02/94 \$520,648	DICKINSON 94-NL-078		
Univ of Wyoming							
AFPSCOR93 COGNITION, SPATIAL ORIENTATION, AND NITRIC OXIDE UNIV OF ARKANSAS	AFPSCOR93 COGNITION, SPATIAL ORIENTATION, AND NITRIC OXIDE	Lyon	Melvin	N 36 16/02/94 \$464,717	COLLINS 94-NL-079		
Univ of Arkansas							
AFPSCOR93 BIOLICAL AND SOCIAL CORRELATES OF SPATIAL COGNITION UNIV OF NEW ORLEANS	AFPSCOR93 BIOLICAL AND SOCIAL CORRELATES OF SPATIAL COGNITION	Alexander	Gerianne	N 36 16/02/94 \$150,105	COLLINS 94-NL-080		
Univ of New Orleans							
COMMITTEE ON SCIENTIFIC: STUDY ON HIGH-PERFORMANCE COMPUTING NATIONAL ACADEMY OF SCIENCES	COMMITTEE ON SCIENTIFIC: STUDY ON HIGH-PERFORMANCE COMPUTING	Benson	William	N 12 16/02/94 \$15,000	A DICKINSON 94-NL-081	\$15,000 01/04/94 \$15,000	
National Academy of Sciences							
SPR94 MULTI-USF DIFFERENTIAL ABSORPTION LIDAR SOURCE UNDULUS LASER CORPORATION	SPR94 MULTI-USF DIFFERENTIAL ABSORPTION LIDAR SOURCE	Russell	Jeffrey	N 06 17/02/94 \$59,988	D KROLL 94-NL-082		
Undulus Laser Corporation							
SPR94 LOW-NUCLEAR INTEGRATED SCANNING SYSTEM BOULDER NONLINEAR SYSTEMS	SPR94 LOW-NUCLEAR INTEGRATED SCANNING SYSTEM	Serati	Steven	N 06 17/02/94 \$59,973	D KROLL 94-NL-083		
Boulder Nonlinear Systems							
AFPSCOR93 SYSTEMATIC ASSESSMENT OF TOXICITY AND ANTIDOTAL EFFECTIVENESS IN MULTIPOLLUTANTS BY SOMA AND CYANOTOXINS UNIV OF MISSISSIPPI MEDICAL CENTER	AFPSCOR93 SYSTEMATIC ASSESSMENT OF TOXICITY AND ANTIDOTAL EFFECTIVENESS IN MULTIPOLLUTANTS BY SOMA AND CYANOTOXINS	Hume	Arthur	N 36 23/02/94 \$577,768	KOZUMBO 94-NL-084		
Univ of Mississippi Medical Center							
AFPSCOR93 COMPARATIVE: ORGANOPHOSPHATE EFFECTS ON ACETYLCHOLINE RECEPTORS AND ACETYLCHOLINE RELEASE MISSISSIPPI STATE UNIVERSITY	AFPSCOR93 COMPARATIVE: ORGANOPHOSPHATE EFFECTS ON ACETYLCHOLINE RECEPTORS AND ACETYLCHOLINE RELEASE	Chambers	Janice	N 36 23/02/94 \$519,390	KOZUMBO 94-NL-085		
Mississippi State University							

TITLE	TITLE (CONT'D.)	INVESTIGATOR	INSTITUTION	TYPE/MONTHS	STATUS	INITIATE START DATE TOT AMT		
						RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	
DEPSOR93 EFFECT OF HEXAVALENT CHROMIUM ON THE METABOLISM OF PROTEINS IN THE LUNGS	DEPSOR93 EFFECT OF HEXAVALENT CHROMIUM ON THE METABOLISM OF PROTEIN	Radhakrishnaaury	Bhandaru	N 36 23/02/94 \$588,202	KOZUMBO 94-NL-086			
TRULINE Univ -- School of Medicine	DEPSOR93 METACULIC ACTIVATION OF TRICHLOROACETIC ACID	Carl Bernofsky	Carl Bernofsky	N 36 23/02/94 \$267,166	KOZUMBO 94-NL-087			
Montana State University	DEPSOR93 A PROPOSAL FOR RESEARCH LEVEL MASS SPECTROMETER COMPONENTS	Van Kuijk	Frederik JGM	N 12 23/02/94 \$129,000	A KOZUMBO 94-NL-088	\$129,000 01/09/94		
Montana State University	DEPSOR93 MOLECULAR INTERACTION OF HUMAN NEUTROPHIL NADPH OXIDASE COMPONENTS	Quinn	Mark	N 36 23/02/94 \$337,131	KOZUMBO 94-NL-089			
Idaho State University	DEPSOR93 CAFFIENE METABOLISM AS A BIOLOGIC MARKER OF LIVER FUNCTION AFTER EXPOSURE TO HALOGENATED HYDROCARBONS	Jarvi	Eric	N 36 23/02/94 \$242,676	KOZUMBO 94-NL-090			
LSU Medical Center in New Orleans	DEPSOR93 MODULATION OF THE NITRIC OXIDE SYSTEM IN INFECTION AND S	Greenberg	Stan	N 36 23/02/94 \$926,065	KOZUMBO 94-NL-091			
Montana State University	DEPSOR93 CONTAMINANT PARTITIONING IN SOIL MICROENVIRONMENTS: EFFECTS ON SENSITIVITY OF COMMUNITANT-DEGRADING MICROORGANISMS	William Inskeep	William	N 36 23/02/94 \$473,951	KOZUMBO 94-NL-092			
Univ of Wyoming	DEPSOR93 MECHANISMS OF MICROBIAL DEGRADATION OF CYCLIC NITRAMINE	Baehle	David Scott	N 36 28/02/94 \$1,098,595	KOZUMBO 94-NL-093			
Oklahoma State University	DEPSOR93 INNOVATIVE MONITORING TO ASSESS ENVIRONMENTAL RISK AT MILITARY INSTALLATION	Gary Ostrander	Gary	N 36 28/02/94 \$299,637	KOZUMBO 94-NL-094			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT AMT
DEPSCOR 93 THE SITU POLLUTANT BIODEGRADATION WITH OLEOPHILIC PARTICLES AND COLLOIDS University of Idaho	Kellogg	N 36 28/02/94 \$309,970	KOZUMBO 94-NL-095	
DEPSCOR 93 CORRELATION OF STANDARD BIOLOGICAL TOXICITY TEST PARAMETER WITH BIOMARKERS Northgate Baptist University	Knight	N 36 28/02/94 \$475,447	KOZUMBO 94-NL-096	
DEPSCOR 93 THRESHOLD AND SUPRATHRESHOLD LATERAL SPATIAL INTERACTION IN BRIGHTNESS, CONTRAST & STEREOSCOPIC DEPTH PERCEPTION North Dakota State University	Mark	N 36 28/02/94 \$261,153	COLLINS 94-NL-097	
DEPSCOR 93 MECHANISMS OF CFLL DEATH Idaho State University	Lai	N 36 01/03/94 \$332,814	KOZUMBO 94-NL-098	
DEPSCOR 93 STRUCTURE OF THE MULTIVENZYME AMINOCYCL-TRNA SYNTHETASE COMPLEX Univ of Mississippi Medical Center	Norcia	N 36 01/03/94 \$469,080	HADDAD 94-NL-099	
DEPSCOR 93 AMYGDALOID CONTRIBUTIONS TO CONDITIONED AROUSAL Univ of Vermont	Koop	N 36 01/03/94 \$233,776	HADDAD 94-NL-100	
DEPSCOR 93 FEEDBACK REGULATION OF IDENTIFIED HYPOTHALAMIC NEURONS BY STRESS RELATED HORMONES Tulane University	Tasker	N 36 01/03/94 \$295,024	HADDAD 94-NL-101	
DEPSCOR 93 BRAIN'S STRESS AXIS: A POSSIBLE PREDICTOR FOR THE QUALITY OF MENTAL PREFERENCE DURING CHRONIC STRESS LSU Medical Center in New Orleans	Prasad	N 36 01/03/94 \$316,183	A HADDAD \$316,183 01/09/94 \$316,183	
DEPSCOR 93 A BIOMECHANICAL INVESTIGATION OF THE PATHOPHYSIOLOGY OF ROTATIONAL BURST FRACTURES OF THE THORACOLUMBAR SPINE LSU Medical Center in New Orleans	Thomas	N 24 01/03/94 \$222,276	COLLINS 94-NL-103	

TITLE (CONT.)	INVESTIGATOR	INSTITUTION	TYPE/MONTHS		STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE RECEIVED AMOUNT	START DATE	TOT ANT
			RE	MONTHS						
JEPSCOR93 ASSESSMENT OF MUSCLE CONTRACTILE CHARACTERISTICS BY THREE-DIMENSIONAL SURFACES	Baratta, Richard	LSU Medical Center In New Orleans	N	36 01/03/94	COLLINS \$270,048		94-NL-104			
JEPSCOR93 RADAR STUDIES OF VERTICAL VELOCITIES NEAR THE JETSTREAM AND IN PRECIPITATION REGIONS	Larsen, Miguel	Clemson University	N	36 03/03/94	KROLL \$240,400		94-NL-105		\$248,400 01/09/94	
JEPSCOR93 LIDAR STUDIES OF MIDDLE ATMOSPHERE DYNAMICS	Merlether, John	Clemson University	N	36 03/03/94	KROLL \$275,527		94-NL-106		\$248,400	
JEPSCOR93 DOPPLER RADAR WIND ANALYSIS FOR STORM PREDICTION AND HAZARD WARNING TO PILOTS	Xu, Qin	Univ of Oklahoma	N	36 03/03/94	KROLL \$387,887		94-NL-107			
JEPSCOR93 CALCULATION OF SCATTERING PARAMETERS FOR CORRECTION OF RADING AND CONCENTRATION INFORMATION UNDUE TO AEROSOL EVENTS	Rene, Rodriguez	Idaho State University	N	24 03/03/94	KROLL \$110,320		94-NL-108			
JEPSCOR93 COMPUTATIONAL MODELING OF MOTION PERCEPTION AND EQUILUM FRANT VISION	Zimmerman, George	Fulane University	N	24 03/03/94	TANGNEY \$451,313		94-NL-109			
JEPSCOR93 FEATURES OF ATTENTION IN VISUAL INFORMATION PROCESSING	Wu, William	North Dakota State University	N	36 03/03/94	TANGNEY \$270,616		94-NL-110			
JEPSCOR93 THE ROLE OF HUMANOID COMPONENTS IN VISUAL PERCEPTION	James, Ray	Inst of New Orlean	N	36 03/03/94	TANGNEY \$311,646		94-NL-111			
JEPSCOR93 AUDITORY DISCRIMINATION OF MULTIDIMENSIONAL CUFFS	Espinosa-Morales, Silas	Univ of Oklahoma College of Medicine	N	36 03/03/94	TANGNEY \$225,000		94-NL-112			

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NAME TITLE (CONT'D.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PROGRESS ENHANCED COUCH TACTICAL RECEPTION, RECOGNITION AND SPATIAL ORIENTATION IN COMPLEX ENVIRONMENTS	Former	N 36 03/03/94 \$363,463	TANGNEY 94-NL-113		
INVESTIGATION OF THUNDERSTORM CHARGING IN FLORIDA USA US MULTIDIMENSIONAL STORM ELECTRIFICATION MODELS	Kenneth John	N 36 03/03/94 \$363,090	KROLL 94-NL-114		
INFLUENCE OF LIGHT LOCATION USES BOTH TRAVELTIME INVERSION AND BROADBAA UNIFORM MAPPING	Frohlich Cliff	N 36 04/03/94 \$213,269	DICKINSON 94-NL-115		
THREE OBJECT DATA BANK: A COLLABORATIVE PROJECT PROPOSAL TO PROVIDE A STANDARDIZED, ALISTIC STIMULUS SET OF COMMON OBJECTS FOR EXPER. Tarr, University	Michael Tarr	N 12 04/03/94 \$67,214	TANGNEY 94-NL-116		
ANALYTIC VISUAL-ABILITY CLASSIFICATION	Hughes Howard	N 36 04/03/94 \$518,655	COLLINS 94-NL-117		
EFFECTS OF ATTENTION AND PERCEPTION ON IMPLICIT AND EXPLICIT MEMORY	Musen Gail	N 36 07/03/94 \$203,198	TANGNEY 94-NL-118		
DESIGN A SMALL AUTONOMOUS AIRCRAFT	McGeer Ted	N 08 07/03/94 \$78,916	KROLL 94-NL-119		
INTEGRATED REMOTE SENSING DETERMINATION OF ALTITUDE DENSITY PROFILES OF ATMOSPHERIC STORMS (MAJOR AND MINOR)	Abdul Wahab Ali	N 06 07/03/94 \$53,602	KROLL 94-NL-120		
REMOTE SENSOR SENSOR SYSTEM	Thomas Parker	N 06 07/03/94 \$44,604	KROLL 94-NL-121		

TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	PROGRAM MANAGER	INITIATE START DATE TOT AMT
3GIR94 CLOUD OP AIR VELOCITY SENSOR USING DOPPLER SHIFT OF SOLAR SPECTRAL FEATURES	Astroterras Corporation	Koravaar, Eric	N 06 07/03/94 \$59,485	0 KROLL 94-ML-122		
SPR94 IMPROVED REMOTE SENSING SYSTEMS	Imx Millimeter-Wave Corporation	Zacharias, David	N 06 07/03/94 \$86,328	0 KROLL 94-ML-123		
SOL94 A LOW TEMPERATURE PLASMA SIMULATOR	RC Inc	Yu, T.C.L. Susan	N 06 07/03/94 \$60,000	0 KROLL 94-N-124		
SPI94 DEVELOPMENT OF A SOLID STATE COHERENT LIDAR BY UTILIZING SE LF-CLOSED/OPEN PULSE RAIL TECHNIQUE	Rouillard, III Laser Sense Inc	Fred Peter	N 06 07/03/94 \$54,106	0 KROLL 94-ML-125		
SPI94 A NARROW BANDWIDTH, PULSED 2 MICRON LASER Diagnostics	Lode	Gary	N 08 07/03/94 \$79,491	0 KROLL 94-ML-126		
SPI94 DEVELOPMENT OF A NOVEL WIND LIDAR	Science & Engineering Services	Lee, Ho. Sang	N 08 07/03/94 \$79,311	A KROLL 94-ML-127		\$59,624 01/08/94
SPI94 DEVELOPMENT OF AN ADVANCED DIFFUSION-REFRACTION LIQUID STATE FOR ATMOSPHERIC MEASUREMENT	Science & Engineering Services	Lee, Ho. Sang	N 08 07/03/94 \$79,818	0 KROLL 94-ML-128		\$79,311
SPI94 MICROWAVE RADAR FOR PASSIVELY & REMOTELY MEASURE THE PROFILE OF WATER VAPOR IN THE TROPOSPHERE	Radiometrics Corporation	Frederick	N 06 07/03/94 \$53,631	0 KROLL 94-ML-129		
SPI94 RADAR, A NEW TECHNOLOGY FOR HIGH PERFORMANCE METEOROLOGICAL SPECTRUM SYNTHESIS PROJECT	Edelsohn, Charles		N 08 07/03/94 \$77,373	A KROLL 94-ML-130		\$59,633 01/08/94 \$79,373

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INTERMEDIATE LEVELS OF VISUAL PROCESSING				
Harvard University	Nakayama	R 36 08/03/94 \$749,017	TANGNEY	94-NL-131
THE HUMAN LUMINESCENT MOTION MECHANISM IS NOT ACHROMATIC				
Harvard University	Stromeier III	N 36 08/03/94 \$695,000	TANGNEY	94-NL-132
ACUSTIC INFORMATION FOR AUDITORY MOTION				
Univ of Wisconsin	Jenison	N 36 08/03/94 \$267,931	TANGNEY	94-NL-133
FROM ANIMALS TO ANIMALS: THIRD INTERNATIONAL CONFERENCE ON THE SIMULATION OF ADAPTIVE BEHAVIOR				
Univ of Hawaii	Raitblat	N 12 D 08/03/94 \$87,159	TANGNEY	94-NL-134
INTERNATIONAL SYMPOSIUM ON SPECTRAL SENSING RESEARCH				
U.S. Army Topographic Engineering Center	Hansen	N 12 A 16/03/94 \$10,000	KROLL	94-NL-135
SPATIAL-FUNCTIONAL MEMORY AND LANGUAGE COMPREHENSION				
Univ of Wisconsin	Glenberg	N 36 17/03/94 \$483,561	TANGNEY	94-NL-136
DEVELOPMENT AND TESTING OF PHYSICAL ALGORITHMS FOR CLOUD FORECASTING IN THE METEOROLOGICAL				
Colorado State University	Cotton	N 36 18/03/94 \$531,568	KROLL	94-NL-137
INVESTIGATION USING AN ACUTE, OPEN-LOOP ANIMAL PREPARATION THAT SIMULATES THE ANTHROPOLOGIC SITUATIONS SEEN UNDER ACCELERATION TO...				
Univ of Leeds	Roger	N 36 A 25/03/94 \$296,692	COLLINS	94-NL-138
INSTANCE AND DIRECTION INFORMATION FOR TARGETED REACHING				
Indiana University/ Ryan Hall	Bianchi	N 36 29/03/94 \$401,830	TANGNEY	94-NL-139

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INSTITUTION			AMOUNT	PROPOSAL #			
SAMPLING STRATEGY AND RECONSTRUCTION REQUIREMENTS OF NATURAL IMAGE IN EARLY VISION Univ of Pennsylvania	Bluchsbaw	Gershon	R 36 29/03/94 \$374,774	TANGNEY 94-NL-140			
VISUAL ATTENTION, PERCEPTION AND MEMORY FOR OBJECTS Princeton University	Treisman	Anne	R 36 29/03/94 \$598,122	TANGNEY 94-NL-141			
NEW RESEARCH IN SKY SURVEILLANCE: INTERPRETATION OF LOW-LUMINOSITY OBJECTS Univ of Arizona	Gehrels	Tom	N 36 29/03/94 \$823,626	RADOSKI 94-NL-142			
THE SOLAR ACTIVITY CYCLE	Goode	Philip	R 36 29/03/94 \$499,467	RADOSKI 94-NL-143			
SITUATIONAL AWARENESS IN TEAMS WITH DISTRIBUTED EXPERTISE: A MULTI -LEVEL APPROACH Michigan State University	Hollenback	John	N 36 29/03/94 \$495,173	TANGNEY 94-NL-144			
COMPARISON IN SIMILARITY AND COGNITIVE PROCESSING Columbia University	Markman	Arthur	N 36 29/03/94 \$238,799	TANGNEY 94-NL-145			
A NEW NEUROLOGICAL FRAME FOR RISK-SENITIN, CONTEXT & SYNCHRONY American University	Murkin	Albert	N 36 29/03/94 \$278,393	TANGNEY 94-NL-146			
NEXT-GENERATION AUTOMATED COGNITIVE SKILL TRAINING Research Development Corporation	Leddo	John	R 12 30/03/94 \$199,673	TANGNEY 94-NL-147			
SEARCH ANALYSIS OF A COGNITIVE APPROACH TO TRANSFORMATIONAL LE Antership Univ of Texas	Mofford	Jerry	N 36 31/03/94 \$342,985	D TANGNEY 94-NL-148			

TYPE	MONTHS RECEIVED	STATUS	INITIATE START DATE
TITLE	INVESTIGATOR	PROGRAM MANAGER	TOT AMT
TITLE (CONT.)		PROPOSAL #	
INSTITUTION			
DETOXICATION STUDY AS BIOMARKERS OF TOXIN EXPOSURE	N 12 31/03/94 \$171,148	A 2312/AS 01/07/94 \$171,148	
Univ of Wisconsin	Siegel	Frank	\$171,149

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				TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
AMPLING PLANS, ASYMPTOTIC RESULTS, PE SAMPLING ALGORITHMS, AND APPLICATIONS TO RANDOM PROCESSES ON THE 3-DIMENSIONAL SPHERE UNIV OF MISSOURI Brown	Jason	N 36 03/01/94 \$97,916	SJOGREN 94-NM-084		
PARALLEL ADAPTIVE METHODS FOR MODELING NONEQUILIBRIUM FLUIDS AND PLASMAS UNIV OF MICHIGAN Gombosi	Tamas	N 36 03/01/94 \$50,000	JACOBS 94-NM-085		
NONPARAMETRIC DATA REGRESSION AND SURFACE RECONSTRUCTION BY WAVELETS OLD DOMINION UNIV R&D FOUNDATION INC. Li	Yu	N 12 03/01/94 \$36,742	SJOGREN 94-NM-086		
DYNAMICS INTRINSIC COMPUTATION AND HIERARCHICAL LEARNING UNIV OF CALIFORNIA, BERKELEY Glasner	Donald	N 36 03/01/94 \$545,820	JACOBS 94-NM-087		
ITERATIVE METHODS FOR IMAGE RESTORATION KENT STATE UNIVERSITY Reichel	Lothar	N 36 03/01/94 \$197,476	SJOGREN 94-NM-089		
PARALLEL COMPUTING & PROBLEM SOLVING ENVIRONMENTS: PROVIDING MASSIVELY PARALLEL COMPUTING TO PROBLEM SOLVERS JARROTH COLLEGE Makedon	Filia	N 12 05/01/94 \$60,885	JACOBS 94-NM-090		
STATISTICAL THEORY OF RELIABILITY UNIV OF MISSOURI Dasu	Asit	R 19 05/01/94 \$118,665	SJOGREN 94-NM-091		
HYDULIN: AN HYDROSTATIC CONSERVATION LAW WITH COMBUSTION SOURCE UNIV OF IOWA Li	Tong	N 36 06/01/94 \$66,783	NACHMAN 94-NM-093		
MODELING OF NONLINEAR STRUCTURAL DYNAMICS OF PNEUMATIC AIRCRAFT TIRES UNIV OF NEW ORLEANS Hiji	David	N 12 06/01/94 \$25,000	NACHMAN 94-NM-094		
					\$25,000 01/05/94 \$25,000

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THEORY AND NUMERICAL METHODS FOR PPGAL4G IN ESCAPE TIME CONTROL, LARGE DEVIATIONS, AND SHAPE RECONSTRUCTION	Dupuis	N 06/01/94 \$199,275	JACOBS 94-NM-095	
CAVITATION IN SCLL15	Paul			
SOUTHERN ILLINOIS UNIVERSITY	Spector			
REASONING UNDER UNCERTAINTY	Scott			
IBM ALmaden Research Center				
AMERICALLY ADMINISTERED FELLOWSHIP PROGRAM IN MATHEMATICS				
AMERICAN MATHEMATICAL SOCIETY	Halpern			
COMPUTATION, CONTROL, OPTIMIZATION AND VIBRATION ANALYSIS OF SHALLOW FOUNDATIONS	Bradley			
RAKES AND M RESEARCH FOUNDATION	John			
THEORY AND COMPUTATION FOR WAVE PROPAGATION	Goong			
UNIV OF MINNESOTA	Friedman			
PARALLEL COMPUTATIONS	Avner			
PHILLIPS LABORATORY				
UNIV INFORMATION PROCESSING SYSTEMS CONFERENCE				
GEORGE WASHINGTON UNIVERSITY	Hussey			
UNIV INFORMATION PROCESSING SYSTEMS CONFERENCE	Thomas			
GEORGE WASHINGTON UNIVERSITY				
EXPLORATION OF THE PHASE CONTROLLED ANTENNA	Moody			
FLORIDA INSTITUTE OF TECHNOLOGY	John			
EXPLORATION OF THE PHASE CONTROLLED ANTENNA	Thursday			
FLORIDA INSTITUTE OF TECHNOLOGY	Michael			

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				AMOUNT	AMT
STATIC AND DYNAMIC CALANICE OF ROTOP STACKS	Bartholdi, III	N 07 26/01/94 \$41,009	A GLASSMAN 94-NM-104	\$40,000	01/03/94 \$40,000
Georgia Institute of Tech	John				
WAVELETS, SIGNAL PROCESSING, & MATRIX COMPUTATION	Bruce	N 12 26/01/94 \$80,300	A SJOGREN 94-NM-105	\$80,300	01/03/94 \$80,300
Air Force Institute of Technology	Suter				
WAVELETS, SIGNAL PROCESSING, & MATRIX COMPUTATION	Bruce	N 12 26/01/94 \$80,000	A SJOGREN 94-NM-106	\$8,000	01/03/94 \$8,000
Air Force Institute of Technology	Suter				
OPTIMIZATION METHODS FOR DIRECT AND INVERSE PROBLEMS IN ELECTROMAGNETICS	Thomas	N 36 27/01/94 \$230,456	A JACOBS 94-NM-107	\$72,353	01/07/94 \$230,456
Univ of Delaware	Angell				
PARALLEL MULTI-SCALE ALGORITHMS AND APPLICATIONS TO COMPUTATION AND TURBULENCE	George	N 36 27/01/94 \$209,008	A JACOBS 94-NM-108	\$65,262	01/05/94 \$209,008
Iowa University	Karniadakis				
MATHEMATICAL THEORY OF NEURAL NETWORKS	Eduardo	N 36 27/01/94 \$242,603	A JACOBS 94-NM-109	\$77,015	01/07/94 \$242,603
Rutgers - The State University	Sontag				
THE MORSE-DEHN CENTRALITY CONJECTURE	Y.	N 12 31/01/94 \$15,000	D SJOGREN 94-NM-110		
Technion State University	Mandrekar				
RESEARCH PROJECTS IN WIRELESS COMMUNICATION NETWORKS	Leandro	N 36 02/02/94 \$255,846	D SJOGREN 94-NM-111		
Politechnic University	Tessilas				
A MATHEMATICAL DESCRIPTIONS OF FUNCTIONS FROM THE ROMICKAPIC DATA	Alexander	N 36 03/02/94 \$167,650	D NACHMAN 94-NM-112		
Kansas State University	Raju				

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				03/02/94 \$46,681	03/02/94 \$46-NM-113
OPTIMAL MEASUREMENT SMOOTHING Univ of Denver	Schroeder James	N 12 03/02/94 \$46,681	SJOGREN 94-NM-113		
JAVELIN BASED PROJECTION METHODS FOR NUMERICAL WAVE PROPAGATION Rice University	Symes William	N 12 03/02/94 \$100,834	JACOBS 94-NM-114		
SIGNAL PROCESSING VIA FOURIER-BESSEL METHODS Univ of Denver	Schroeder James	R 12 03/02/94 \$46,681	SJOGREN 94-NM-115		
MODEL BASED FILTER DESIGN BY MINIMIZING MEDIAN OF SQUARE OF RESIDUALS Univ of Denver	Schroeder James	N 12 03/02/94 \$46,681	SJOGREN 94-NM-116		
ITERATIVE METHODS FOR IMAGE RESTORATION Stevens Institute of Technology	Calvetti Daniel	N 36 03/02/94 \$141,056	SJOGREN 94-NM-117		
REGIONAL DISCRIMINATION AND DETECTION BY PARAMETRIC FILTERING Texas A and M Research Foundation	Li Ta-Hsin	N 36 03/02/94 \$345,076	SJOGREN 94-NM-118		
SYSTEM INTEGRATION VIA VIRTUAL NETWORKS FOR FLEXIBLE STRUCTURE Control Stanford University	Cannon Robert	N 12 03/02/94 \$168,619	JACOBS 94-NM-119		
(SICR-4) IMPACT HUMAN CONTROL Xertek	Fraser Kirk	N 06 09/02/94 \$60,000	JACOBS 94-NM-120		
(SICR-4) LOW-COST OPEN ARCHITECTURE E3337 CONTROLLERS Trellis Software & Controls, Inc	Gorstenberger Michael	N 06 09/02/94 \$59,933	JACOBS 94-NM-121		



TITLE TITLE COUNT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY AMT
(S01R)4) USER-FRIENDLY MICROCOMPUTER INTERFACE WITH OPTIMIZATION LANGUAGE(S) Integral Solution Corporation	Earl Collin	N 05 08/02/94 \$54,240	O GLASSMAN 94-NM-131	
(S01R)4) JETCH ARCHITECTURE ROBOTICS RESEARCH & DEVELOPMENT PLATFORM Automation Inc	Katz Joel	N 06 08/02/94 \$59,998	D JACOBS 94-NM-132	
(S01R)4) USEP-FRIENDLY MICROCOMPUTER INTERFACE WITH OPTIMIZATION LANGUAGE(S) Primesol Solutions, Inc.	Savage Sam	N 09 08/02/94 \$79,502	A GLASSMAN 94-NM-133	\$59,690 01/08/94 \$79,502
(S01R)4) DESIGN OF A LOW COST, HIGH PERFORMANCE ROBOTIC ARM USING SHAPE MEMORY ALLOY ACTUATOR AT Engineering	Nguyen Thuy	N 06 08/02/94 \$59,994	D JACOBS 94-NM-134	
(S01R)4) INTERACTIVE MATHEMATICAL OPTIMIZATION Wilson M. Shamblien	Shamblien	N 06 08/02/94 \$57,743	D GLASSMAN 94-NM-135	
(S01R)4) GENERAL PURPOSE ROBOTICS RESEARCH DEVICE FOR UNIVERSITIES Orange County Robotics	Martin	N 06 08/02/94 \$593,165	D JACOBS 94-NM-136	
(S01R)4) MULTICOMMODITY LOGISTICS NETWORK MODELING USING MULTILINEAR SURFACE-TO-SURFACE MATHEMATICAL PROGRAMMING SOFTWARE CAPS Logistics, Inc	William Macleod	N 09 08/02/94 \$79,743	A GLASSMAN 94-NM-137	\$59,864 01/08/94 \$79,743
(S01R)4) HIGHLY CONFIGURABLE PLATFORM TECHNOLOGY FOR INTEGRATED PROJECT DESIGN MacLeod Technologies, Inc	Edward MacLeod	N 06 08/02/94 \$59,540	D JACOBS 94-NM-138	
(S01R)4) THE XINOTECH MODEL TRANSLATION BETWEEN SPREADSHEETS AND OPTIMIZATION LANGUAGES Xinotech Research Inc	Rivera Romel	N 06 08/02/94 \$59,913	D GLASSMAN 94-NM-139	

TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE TOT ANT	
					AMOUNT	PROGRAM MANAGER
(SAIR-94) LOW COST PLATFORM FOR RESEARCH INTO ANTHROPOLOGIC TOPICS	Virtual Computing Systems, Corporation	Stathura, Paul	N 06 08/02/94 \$59,978	D JACOBS 94-NM-140		
(SAIR-94) LOW COST PROJECT RESEARCH PLATFORM	CITA Computer International Tech Advan	Orley, Norris	N 06 09/02/94 \$60,000	D JACOBS 94-NM-141		
(SAIR-94) LOW-COST LOGISTICS RESEARCH PLATFORM	Synthetic Technical Services, Inc	Chi, Shu	N 06 08/02/94 \$69,745	D JACOBS 94-NM-142		
MINING APPLICATIONS OF PROBABILITY	Friedman, Friedman	Avner	N 04 10/02/94 \$30,000	A SJOGREN 94-NM-143	\$30,000 01/05/94 \$30,000	
PARALLEL PROGRAM ARCHITECTURES	California Institute of Technology	Chandy, K	N 36 10/02/94 \$391,917	A LUGINBUHL 94-NM-144	\$121,792 01/06/94 \$391,917	
NEW ALGORITHMIC APPROXIMENTS IN NONLINEAR OPTIMIZATION	George Washington University	Fiacco, Anthony	N 12 14/02/94 192,230	A GLASSMAN 94-NM-145		
OPTIMIZATION AND COMPUTATIONAL SYSTEMS FOR AIR-STRUCTURAL ANALYSIS OF AIRCRAFTS OR THERMAL AND MECHANICAL SYSTEMS	Air Force Institute of Technology	Reijenmann, Michael	N 12 17/02/94 \$24,200	A NACHMAN 94-NM-146	\$24,200 01/03/94 \$24,200	
A FULLY DIFFERENTIAL PROBABILISTIC FRAMEWORK FOR EXPERT SYSTEMS	US Air Force Institute of Technology	Santos, Jr., Eugene	N 12 17/02/94 \$16,850	A WAKSMAN 94-NM-147	\$16,850 01/03/94 \$16,850	
OPERATOR-ORIENTED DESIGN CONSTRUCTION AND AEROPTIC METROLOGY IN	US Air Force Institute of Technology	Stanley, Other	N 04 22/02/94 \$40,011	A NACHMAN 94-NM-148	\$40,011 01/06/94 \$40,011	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONTROL OF NONLINEAR SYSTEMS University - The State University	Sontag	N 36 28/02/94 \$292,951	JACOBS 94-NM-149	
INTEGRATED PLACEMENT POLICIES FOR REAL-TIME SYSTEMS Univ of Massachusetts	Krishna	N 36 28/02/94 \$312,266	LUGINBUHL 94-NM-150	
HIGH PERFORMANCE PARALLEL/DISTRIBUTED SCIENTIFIC COMPUTING AND VISUALIZATION Univ of Texas	Zhang	N 36 28/02/94 \$429,125	GLASSMAN 94-NM-151	
LCR SUPPORT FOR THE STUDY IN MATHEMATICAL SCIENCES National Science Foundation	McDonald	N 12 28/02/94 \$45,600	HOLLAND 94-NM-152	\$50,040 01/06/94 \$50,040
POSSITIVISTIC PLANNING, INFORMATION GATHERING, AND CONTINGENT EXECUTION Univ of Washington	Hanks	N 36 28/02/94 \$379,968	WAKSMAN 94-NM-153	\$88,000 01/08/94 \$228,982
SYNTHETIC REASONING WITH QUALIFIED SYLLOGISMS Florida State University	Schwartz	N 36 01/03/94 \$200,015	WAKSMAN 94-NM-154	
OPTIMIZATION OF COMPUTATION PARALLEL BY GENETIC ALGORITHMS WITH MEMORY IN PARALLEL COMPUTERS Virginia Polytechnic Inst & State Univ	Haftek	N 24 01/03/94 \$116,242	GLASSMAN 94-NM-155	
METHODS FOR DESIGNING FAULT-TOLERANT ASYNCHRONOUS SYSTEMS U. S. Court Institute Math Science	Kedem	N 36 01/03/94 \$354,319	LUGINBUHL 94-NM-156	
DETERMINING REQUIREMENTS: EVALUATION OF FORMALITY PARAMETERS FOR ALGORITHMIC ALIENESS Univ of Kentucky Research Foundation	Chi-Sing	N 36 03/03/94 \$72,000	NACHMAN 94-NM-157	\$72,000 15/09/94 \$72,000

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE
(DEPSCOR93) MODELING & CONTROL OF UNCERTAIN SYSTEMS WITH APPLICATIONS TO AIR FORCE PROBLEMS			N 36 03/03/94 \$149,050	A JACOBS 94-NR-158		869-355 01/09/94 869-355	
Louisiana State University	Gu	Guoxiang					
(DEPSCOR93) COLLABORATIVE RESEARCH ON ARTIFICIAL INTELLIGENCE AND KNOWLEDGE SCHEDULING FOR AIR TRANSPORT		Ervin	N 35 03/03/94 \$1,010,564	GLASSMAN			
Ashington University	Rodin						
(DEPSCOR93) ADAPTIVE SYSTEM IDENTIFICATION FOR FAULT TOLERANT CONT			N 36 03/03/94 \$221,361	JACOBS			
tol USING MARK FUNCTIONS							
University of Missouri	S. Galakrishnan	S.					
(DEPSCOR93) ANALYTICAL & COMPUTATIONAL METHODS FOR NONLINEAR			N 36 03/03/94 \$717,053	JACOBS			
STRUCTURE DESIGN							
Ashington University	Byrnes	C.					
(DEPSCOR93) SOLVING OF LARGE NONLINEAR PROBLEMS BY THE P- AND			N 36 03/03/94 \$710,599	JACOBS			
10-VERSIONS OF THE FINITE ELEMENT METHOD							
McDonnell Aircraft Company	Katz	I. Norman					
(DEPSCOR93) DISTRIBUTED OPTIMIZATION FOR CUSTOMIZED AIRCRAFT FLEET			N 36 03/03/94 \$332,0487	GLASSMAN			
IMPLEMENTING							
North Dakota State University	Mynard	Kendall					
(DEPSCOR93) AERONAUTICAL DESIGN ON THE BOUNDARY DESCRIPTION OF			N 36 03/03/94 \$144,1500	NACHMAN			
RESPONSIVE PLLI PROGRAMMING							
Joint of Vermont	Durhastun	Kurt					
(DEPSCOR93) APPLICATIONS OF PATTERN THEORY			N 36 03/03/94 \$134,465	MAKSMAN			
Michigan State University	Weller	James					
(DEPSCOR93) THEORETICAL & COMPUTATIONAL INVESTIGATIVE			N 26 03/03/94 \$278,172	NACHMAN			
VALUATION USING WAVELETS							
Joint of Missouri	D'Fazio	Arian					

TITLE TITLE (CONT'D.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONTROL OF LINEAR MULTIVARIABLE SYSTEMS SUBJECT TO INPUT SATURATION	Ali Saberi	N 09/03/94 \$32,300	JACOBS A	\$32,300 01/04/94
PRINCETON UNIVERSITY	Ali Saberi	N 09/03/94 \$75,860	JACOBS A	\$32,300 01/04/94
MULTIVARIABLE SYSTEMS Princeton University	Holmes, Phillip	N 10/03/94 \$735,828	NACHMAN A	\$36,000 01/07/94
A SUMMER WORKSHOP IN ADVANCED BAYESIAN MAPPING	D'Ambrosio, Bruce	N 14/03/94 \$30,000	WAKSMAN A	\$30,000 01/07/94
MULTIVARIABLE METHODS IN SYSTEMS, SIGNALS AND IMAGES Massachusetts Institute of Technology	Willsky, Alan	N 14/03/94 \$464,507	JACOBS A	\$36,000 01/07/94
ROBOT IDENTIFICATION AND CONTROL Massachusetts Institute of Technology	Orin, Munther	N 17/03/94 \$456,211	JACOBS A	\$36,000 01/07/94
ROBOT MULTIDIMENSIONAL BACK CONTROL Institute of Technology	Dennis Bernstein	N 17/03/94 \$400,993	JACOBS A	\$36,000 01/07/94
ANALYSIS OF THE SYMMETRICAL THEORY OF DIFFRACTION...		N 18/03/94 \$973,800	NACHMAN A	\$48,000 01/07/94
PHOTO-RESEARCH AND DEVELOPMENT INC	Castaneda, Jesse			
SOLVING OPTIMIZATION PROBLEMS BY IMPLEMENTING NEURAL NETWORKS ON PARALLEL PROCESSORS	Tukefuji, Yoshiyasu	N 21/03/94 \$183,597	GLASSMAN A	\$24,000 01/07/94
UNIVERSITY OF MICHIGAN				

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PROGRAMMATIC LEARNING ADAPTIVE MULTIVARIATE FILTERING	Gardner	William	N 36 29/03/94 \$366,579	SJOGREN	94-NM-176
UNIV OF CALIFORNIA, DAVIS					
STATISTICAL INFERENCE PROBLEMS IN DATA FUSION AND SEMI-PARAMETRIC REGRESSION	Matheson	Thomas	R 36 31/03/94 \$187,849	SJOGREN	94-NM-177
UNIV OF MARYLAND, BALTIMORE COUNTY					

TITLE TITLE (CONT.) INSTITUTION INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		AMOUNT	RECEIVED	MONTHS		
ANALYTICAL AND TECHNICAL SUPPORT	EARL SMITH	\$6,000.000	30/03/94	N 22	\$2,100.000 01/04/94 \$6,000.000	94-EX-001